

Presidio of San Francisco
PO Box 29141
San Francisco, CA
94129-0141

tel: (415) 561-6900 fax: (415) 561-6795 frontdesk@alexa.com www.alexa.com

ALEXA INTERNET PRESS CLIPS

May 1998 to October 1998





Erie PA

May 17, 1998

Web sites can be here today, but one tomorrow

By DAVID PLOTNIKOFF Knight Ridder Newspapers

It was a bittersweet circuid for a Friday night: For the first time in many years, I was going back to the place I'd worked for six very contented years prior to signing on with the San Jose Mercury News. My old crew was reconvening, a special one-night-only deal to mark a departure. The boss who'd been the key to our contentment was retiring.

It was a casual affair - pizza and polluck desserts, seasoned with a lot of funny little stories. And, of course - this being Silicon Valley in 1998 - there was a digital tribute, a Web page filled with photos and collected memories.

Aesthetically speaking, the page on the free Geocities service was a modest effort. But for those of us who'd been there, it was priceless. Later that night, I sent "you-gottacheck-this-out" e-mail to a couple of old friends who didn't make the party. And as I did so, I found myself calculating just how long it might be before the page simply vanished into the ether. I knew the chances were good that by the time my friends got around to punching it up, it would be just another 404 error, another missing patch in the digital quilt

The Web is a dynamic medium, certainly more a river than a reservoir. Vast resources that are there one day are simply washed away the next. Most of us seem to accept this instability as a natural condition of cyberspace. But it's still something of a shock to realize exactly how volatile the networked world is. Alexa Internet, the San Francisco-based company that uses software robots to mine the great reaches of the Web for the non-profit Internet Archive, has mapped and stored about 10 terabytes of data. The firm figures that the average lifespan of a Web page is just 77 days. While Alexa has yet to calculate exactly how often resources are removed from the network we can safely say that's a lot of 404

Should the Web grow into an archival medium as well as a news mcdium? Far be it from me to say. That's the prerogative of the authors and Web masters. What troubles me is the inherent uncertainty involved in using the Web in its current form. With other media, a user has a reasonable expectation how long a resource will be available. We know the information contained in newspapers and magknow that books and compact discs generally don't disappear from the information marketplace overnight. With the Web you launch your browser and take your chances.

This uncertainty has any number of bad consequences when it comes to integrating the Web into the rest of the infosphere. Academics are wary of referencing online source materials for fear that those sites won't be there by the time their theses come up for review. I suspect book publishers shy away from bundling CD-ROMs of Web links with their titles for the same reason. And on the consumer end, we all know people who've been conditioned to print out hard copies of every Web page that catches their

The question we might be wise to ask ourselves is this: Do we really want to build a culture that purges its own past every 77 days?

THE GREAT OUT-DOORS: A half-dozen federal agencies charged with stewardship of America's wide open spaces have banded together to offer a comprehensive database of nearly 2.000 recreation sites - parks. forests and other public resources searchable by state and activity The service, at http://www.rccrcation.gov, provides thumbnail summaries of each recreation site, contact numbers, maps, weather forecasts and links to many pages maintained by individual jurisdictions.

B DEPT. OF GOOD

WORKS: If you've got the time, chances are Impact Online has the right volunteer opportunity for you. The Palo Alto, Calif. based nonprofit organization functions as a Web clearinghouse of sorts, matching people with both one-shot and ongoing volunteer tasks. The agency's new VolunteerMatch service, at

http://www.volunteermatch.org. allows notential volunteers to search a vast national database of openings and filter the results by their own requirements. Punch in your 2IP code, then specify the distance you can travel, the type of public service you'd like to explore and the time you can spare. The service returns a custom list of contacts. In addition to the national database, there are also listings by city.

#DO-IT-YOURSELF 'DOONESBURY': Cartoonist Garry Trudeau became the latest big-name author to cast his creative fate to the digital wind. "The Peoplc's Doonesbury@Amazon.com," which debuted Monday last week

chance for Trudeau's fans to try their hand at creating plot and dialogue for B.D. Mike, Zonker and the rest of the beloved cast. Here's the deal: Ten panels drawn exclusively for the event are posted on the site. Trudeau filled in dialogue for the first panel. Visitors to the online bookseller are submitting their suggestions for the subsequent panels. Each day, the winning entry is added to the site until the 10 panels are complete. Trudeau will then cap it off with a final frame, to be posted May 18. On May 19, the complete project will be printed as a full-page feature in USA Today. Sec you in the funny papers.

MINUMBERS GAME: For those of you keeping score at home. the Net-research firm Relevant Knowledge says it's calculated the total population of Web users in the United States to be 57 million and change, up 1.6 million since January. The company used randomdigit-dialed interviews with 10,000 people to arrive at that figure, with an error rate of plus or minus 1.5 percent. (The usual caveat applies: Counting heads on the Net is still as much an art as a science. Other companies using different methods and definitions estimate the total number of U.S. users to be anywhere from 38 million to 52 million.)

The new Relevant Knowledge statz showed no change in the percentage of Web users with college degrees (51 percent) and virtually no change in the gender split (58 percent male to 44 percent female). The one significant blip since the beginning of the year. The population segment aged 18-34 is now 39 percent of the Web audience, up five percentage points since Janu-

44

David Plotnikoff writes about the wired life for the San Jose Mercury News, 750 Ridder Park Drive, San Jose, Calif., 95190. E-mail plotnikoff@simercury.com. On the Web, dial http://www.simercury.comcolumnists-plotnikoff





May 31, 1998

Seidman's Online Insider - May 31, 1998

Vol. 5, Issue 18

Copyright (C) 1998 Robert Seidman. All rights reserved. May be reproduced in any medium for noncommercial purposes as long as attribution is given.

IN THIS ISSUE...

- . Drinking the Kool-Aid
- Netscape's Good News and Bad
- Will MCI and WorldCom Ever Get Married?
- Insider Talk Update
- Stock Watch
- Subscription Info



Drinking the Kool-Aid

A few weeks ago, <u>IBM</u> relaunched its Web site with a new design. I didn't like it. I didn't like the way it looked and I didn't like the fact that it seemed to blow up Internet Explorer 4.0. To me, it looked hideous, but I would agree that sort of thing is a matter of taste.

So I wasn't shocked when my fellow participants in the Insider Talk discussions were not as disgusted with the site as I was. But it did bother me that nobody, including IBM, seemed to get the fact that IBM failed to do a good job of serving its customers -- which is, as far as I know, IBM's PRIMARY reason for having a Web site. The site is there mainly to give customers and potential customers information about IBM's products and services, period. So what's going to make IBM's customers and potential customers the happiest? Giving them the information as quickly and as easily as possible. Even though I personally didn't like the look of the site, the reason I think it's a bad site is not because of how it looks, but because of how it fails to achieve its primary mission: to provide IBM's customers and potential customers with information about IBM's products and services as quickly and as easily as possible.

Over a dual-channel ISDN connection, the home page alone took almost 2 seconds to load and came with more than 15 graphic images. OK, some that time may be MY connection, but it doesn't take much to know that it's going to be slower via a 28.8-kilobit-per-second connection and much slower over a 14.4 connection. Worse, there were no text links, so I HAD to wait for the graphics to load to get where I wanted to go.

I wanted info on ThinkPads (one of the best computer products of all

time, as far as I'm concerned -- maybe IBM ought to let the ThinkPad folks design the Web site!). Well, there was no info about ThinkPads on the home page, so I clicked on the "Products" button. More than 20 graphics were on the products page, but it took me only 12 seconds more to get the info (remember, though, this was over a dual-channel ISDN connection). Again, no text links -- only graphics. There was no direct link to ThinkPads, so I choose the PCs and Notebooks icon. The next page took only a few seconds to load, but there was only one purpose for the page: It wanted to know which country I'm from. Thinking this was a real waste of space and time, but left with no other choice, I made a selection (the United States). Nothing happened, so after a while, I hit stop. Then I clicked the "Go" button again and got an IE 4 dialog box telling me that there was a script error on the page and that "options" was not an object. I decided (wisely, I think) not to debug the error and just clicked "No." I then had to select the United States again; this time it worked. I was taken to a products page (more than 25 graphic images that took 16 seconds to load over my dual-channe ISDN connection).

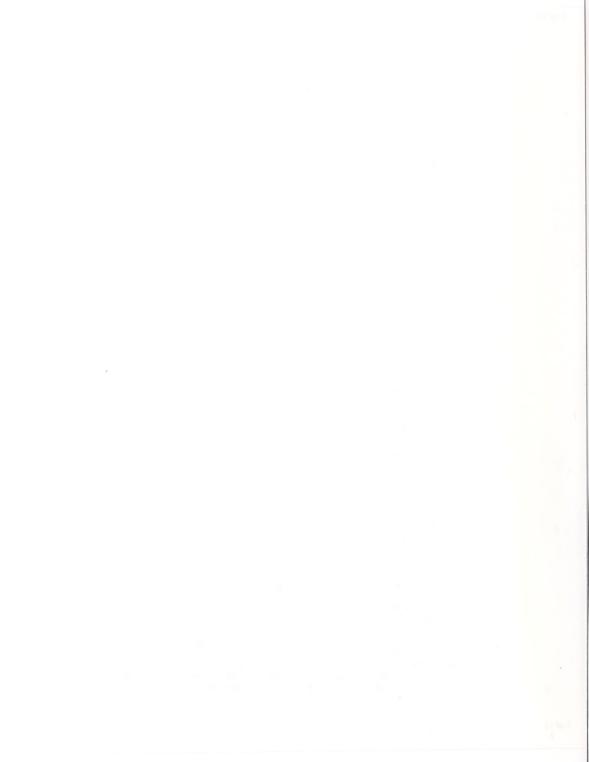
The bad news, after all that, was I still wasn't done. I had to click on the Notebooks and PDAs option. Here I got my first option to actually select something from the ThinkPad line. Yay! It took a few more clicks and waiting for slow pages to load before I finally got to the spec sheet for the Model 770 I've been eyeballing.

While I object to the look of the site and while I vehemently object to the heavy use of graphics, I could live with all those things. What really bothers me is that it took me five clicks (and pages) to get to the first page of information about ThinkPads! Easily, half of the clicks were entirely unnecessary.

Now, I do understand that IBM has an image to maintain and can't just put up a site that doesn't represent its image well, but it seems to me that IBM came nowhere near balancing its own objectives against the objectives of the people who have to USE the site. A lot of people have told me that the IBM site looks really cool. I might not agree with that, but that doesn't matter. "Cool" should not factor into the equation. All you have to do is look at Yahoo! and then look at Yahoo!'s position in the marketplace to figure out that "cool" isn't an integral part of the equation.

Yahoo! has succeeded because it's both quick AND easy. In fact, initially at least, "easy" carried Yahoo! a long way ahead of its competition. Searching is too hard for a lot of people, and on Yahoo! you don't have to search. You can drill down through a topical menu to get the info you want. It's extremely functional. It isn't the prettiest or coolest-looking site, for sure, but it serves its customers extremely well!

What concerns me here is that those of us in the industry seem willing to put up with a lot of crap. Several people wrote me to say, "Hey, the IBM site works, why rag on it?" Yes, it does work, but it isn't anywhere near as easy as it could be. I'm concerned that people are designing sites with things other than their users in mind. The IBM site seems designed to please, well, designers — and maybe a few execs within IBM. And people are telling me, hey, this is OK — because it works! That's not good enough. That doesn't take advantage of the opportunity that exists. Yes, the true computer enthusiast will put up



time, as far as I'm concerned -- maybe IBM ought to let the ThinkPad folks design the Web site!). Well, there was no info about ThinkPads on the home page, so I clicked on the "Products" button. More than 20 graphics were on the products page, but it took me only 12 seconds more to get the info (remember, though, this was over a dual-channel ISDN connection). Again, no text links -- only graphics. There was no direct link to ThinkPads, so I choose the PCs and Notebooks icon. The next page took only a few seconds to load, but there was only one purpose for the page: It wanted to know which country I'm from. Thinking this was a real waste of space and time, but left with no other choice. I made a selection (the United States). Nothing happened, so after a while, I hit stop. Then I clicked the "Go" button again and got an IE 4 dialog box telling me that there was a script error on the page and that "options" was not an object. I decided (wisely, I think) not to debug the error and just clicked "No." I then had to select the United States again; this time it worked. I was taken to a product page (more than 25 graphic images that took 16 seconds to load over my dual-channe ISDN connection).

The bad news, after all that, was I still wasn't done. I had to click on the Notebooks and PDAs option. Here I got my first option to actually select something from the ThinkPad line. Yay! It took a few more clicks and waiting for slow pages to load before I finally got to the spec sheet for the Model 770 I've been eyeballing.

While I object to the look of the site and while I vehemently object to the heavy use of graphics, I could live with all those things. What really bothers me is that it took me five clicks (and pages) to get to the first page of information about ThinkPads! Easily, half of the clicks were entirely unnecessary.

Now, I do understand that IBM has an image to maintain and can't just put up a site that doesn't represent its image well, but it seems to me that IBM came nowhere near balancing its own objectives against the objectives of the people who have to USE the site. A lot of people have told me that the IBM site looks really cool. I might not agree with that, but that doesn't matter. "Cool" should not factor into the equation. All you have to do is look at Yahoo! and then look at Yahoo!'s position in the marketplace to figure out that "cool" isn't an integral part of the equation.

Yahoo! has succeeded because it's both quick AND easy. In fact, initially at least, "easy" carried Yahoo! a long way ahead of its competition. Searching is too hard for a lot of people, and on Yahoo! you don't have to search. You can drill down through a topical menu to get the info you want. It's extremely functional. It isn't the prettiest or coolest-looking site, for sure, but it serves its customers extremely well!

What concerns me here is that those of us in the industry seem willing to put up with a lot of crap. Several people wrote me to say, "Hey, the IBM site works, why rag on it?" Yes, it does work, but it isn't anywhere near as easy as it could be. I'm concerned that people are designing sites with things other than their users in mind. The IBM site seems designed to please, well, designers -- and maybe a few execs within IBM. And people are telling me, hey, this is OK -- because it works! That's not good enough. That doesn't take advantage of the opportunity that exists. Yes, the true computer enthusiast will put up

And that sort of does appear to be the case, at least for the time being. Netscape maintains that it has more than 60 percent of the browser market. And, clearly, Netscape's giving its browser away -- if the quarter ended in April is an indication -- did not seem to have much impact.

The revenue generated from Netcenter (Netscape's Web site) grew to \$31 million, up 55 percent compared with last year and 48 percent compared with the quarter ended Dec. 31 -- and that's without any of the Excite money.

New Stuff From Netscape

(based on a conversation with Netscape VP, Mike Homer, which, unfortunately happened after the newsletter had already been edited!)

After going through Netscape's 35 page PowerPoint presentation (hey, EVERYONE uses Microsoft applications, I guess!), with Homer, I have to say that it looks like Netscape is FINALLY getting its online act together.

I saw prototypes for the new "portal" which will be dubbed Netcenter 2.0 (at least internally). The new Netcenter will be very much Yahoo!-like and Excite-like, except it probably will have better content for some of its channels than Yahoo! or Excite. For example, Yahoo! and Excite rely almost exclusively on wire services for their sports coverage, but Netscape will likely partner with the likes of an ESPN or CBS Sportsline to produce content for NetCenter's sports channel. This may, at least temporarily, give Netscape a leg up on its competition. It will at least provide some differentiation. While the channels are under development, Netscape will temporarily use Excite's channels.

See this piece, for more details on the channels Netscape is producing, a channels it is relying on Excite for.

Netscape's personalization (code named "Manhattan", it will be called "My Netscape") is scheduled to be in beta when Netcenter 2.0 debuts sometime between the middle and end of June. Netscape's approach is different than the competitions with personalization in that it is trying to make a "web desktop" (within a browser window). In other words, the sections of the page are all their own "windows" which may be tiled, maximized, minimized, moved around on the page, etc. The one possible drawback here is that the use of Javascript to make these sections their own windows likely increases the size of the pages. I asked Homer about this and while he couldn't tell me how big the default personalized page would be the specification for the product called for the file size to be no bigger than "My Yahoo!" or "My Excite". Based on what I saw, I'm betting it is bigger by a noticeable amount.

Nice features that will be added into future versions of the Navigator browser (versions 4.06, a 4.5 version and, ultimately, 5.0) include an icon on the browser toolbar that will take you directly to your personalized page. Also, coming in those

versions will be something called "Smart Browsing". This allows a user to type, for example "Ford" into the URL address bar and get to the Ford web site. It is like taking the functionality of Centraal's "Real Name" system and putting it directly in the browser. While initially the database of sites will only contain about 10,000 sites, it will grow. If the entry isn't in that database, Netscape will then look through the Internic's domain name registration database. If it still can't find anything, it will do a regular "search" via Excite and display the results. In spite of the success of the search engines, the one thing Homer says customers complain loudest about is that it is too hard to find what they are looking for. Smart Browsing is definitely a step in the direction of making that easier.

Also included will be a feature called "What's Related". So, for example, once I'm on the Ford Web site, there will be an icon called "What's Related", if I click it, a menu will drop down listing related sites. The back-end for the "What's Related" service will be provided by Alexa Internet, who makes the free Web navigation add-on, Alexa.

Unfortunately, in order to take advantage of this, you'll have to download Navigator 4.06, which should be available when Netcenter 2.0 launches. Interestingly, Homer described the breakout of existing Navigator usage as follows:

35% on 4.x

35% on 3.x

20% on 2.x

10% on 1 x

What this demonstrates to me is that it takes a while for folks to gravitate to the new browsers. I asked Homer when he thought 35% would upgrade to the forthcoming version and he predicted about 6 months. This seems very aggressive to me, but Homer points out that they're getting more distribution all the time and as a result of DOJ initiatives and that the Navigator is now free, they'll get more OEM deals (Gateway announced it would use Navigator for Gateway's own online service it will begin bundling with its machines). I asked Homer if he thought most of that was because the browser was free, and not related to the DOJ case against Microsoft.

"While I think it is primarily because the browser is now free, I still think it is a combination of that and the DOJ initiatives. You'd be amazed at how afraid of Microsoft some of these (computer manufacturers) companies are. They're afraid Microsoft is going to screw them somehow," says Homer.

Homer figures that between OEM, ISP and deals with companies, more than 100 million copies of Netscape will be distributed over the next year.

[Back to contents]

million. Already MCI-WorldCom's would-be competitors are claiming the sale isn't enough to satisfy anti-competitive concerns. Stay tuned...

[Back to contents]

Insider Talk Update

Rich Miller, president and CEO of Telematica, started a great thread on e-commerce development. Essentially, Rich laid the groundwork for a framework to use in looking at e-commerce. Miller's concept, with a little help from FontBank president Jerry Saperstein, covers the entire spectrum of e-commerce. I think it is a great place to start. To be honest, participation hasn't been what I'd like to see in this thread, so if you're already an Insider Talk participant and feel qualified to speak on the subject of e-commerce, please dive in. If you're not a participant and think you should be, send e-mail to insiders@onlineinsider.com, and I'll get you set up with access. But whoever you are, if you're interested in e-commerce in any way, you'll want to check out the action here.

[Back to contents]

Stock Watch for the Week Ended May 29, 1998

Courtesy of InfoBeat's CLOSING BELL < http://www.infobeat.com >.

52 Wk SECURITY	52 Wk CLOSE	P/E HIGH	Week LOW	Ratio	С
AT&T Corp	60 7/8	68 1/2	34	21	+3
Amazon Com Inc	88 1/8	100	16 1/2		+2
America Online Inc	83 5/16	92 1/4	26 5/8	260	-
Apple Computer Inc	26 5/8	31 5/8	12 3/4		- 4
At Home Corporation Ser A	34 3/4	47	16 5/8		-7
C/Net	36 1/4	46 1/2	19 5/16		- 4
CMG Info Svcs. Inc	44 3/8	53 3/4	6 3/16		-9
Cendant Corporation	21 3/4	41 11/16	17	363	-
Cmp Media Inc Cl A	21	29 3/8	13 3/4	23	-6
Concentric Network Corp	22 1/8	30	7 7/8		-1
Cybercash Inc	15 1/16	27 3/4	10 1/8		-10
Earthlink Network Inc	54 1/2	77	10		+0
Excite Inc	54 3/8	93 5/16	10 1/8		-8
FTP Software Inc	2 5/8	5 15/16		0.5	-12
GTE Corporation	58 5/16	64 3/8	40 1/2	25	-1
H & R Block Inc	44	49 1/16	30 5/8	14	-1 -5
Hewlett Packard Company	62 5/16	82 3/8	50 1/8	22	-
IBM	117 1/2	129 5/16	81 3/4	20	- 3
ICG Communications Inc	30 1/4	44 1/4	15 1/4		-11
Infoseek Corporation	23 1/16	45	4 3/8		-11
Lycos Inc	53 1/64	79 1/8 54 3/16	11 3/16 27 5/16		+1
MCI Communications Corpor	53 15/32 20 3/4	29 7/8	17 3/4	28	-6
Mecklermedia Corp	20 3/4	29 1/0	1/3/4	20	-0

Microsoft Corporation	84	13/16	99	1/8	58	3/4	54	-0
Mindspring Enterprises In	53	1/64	85	1/4	9	1/8		-9
Netmanage Inc	3	5/16	5	1/4	2	3/32		-5
Netscape Communications C	24	1/2	49	1/2	14	7/8		-1
Network Solutions Inc. Cl	36	31/32	58		11	3/4	92	-8
Newsedge Corporation	11	1/2	19	3/4	6	7/16		-7
Onsale Inc	25	11/16	36	13/16	5	7/8		-10
Open Market Inc	16	3/16	29	1/8	8	7/8		+6
Oracle Corporation	23	5/8	42	1/8	17	5/8	31	-3
Psinet Inc	10	3/4	15	1/4	4	1/4		-5
Quarterdeck Corp	1	25/64	3	9/16	1	3/16		-2
Realnetworks Inc	23	1/8	39	7/16	13	1/2		-2
Security First Network Ba	10	1/8	14		5	1/4		-0
Silicon Graphics Inc	12		30	5/16	10	15/16		+2
Sportsline Usa Inc	27	3/16	39	5/8	7			-3
Sprint Corporation	71	7/8	75	5/8	44		36	-2
Spyglass Inc	9	3/4	15	3/8	4	1/16		-10
Sun Microsystems Inc	40	1/16	53	5/16	30	3/8	22	-3
Vocaltec Communications L	16	3/16	33	1/4	6	3/8		-4
Worldcom Inc	45	1/2	46	3/8	27		455	+
Yahoo Corporation	109	1/2	129	9 5/8	20	9/16		- 4
Dow Jones 30 Industrials.	8,89	9.95						-2

[Back to contents]

Subscription Information

To subscribe to a text version of this newsletter, send e-mail to:

insider-text-on@seidman.infobeat.com

For an HTML version of the newsletter, send e-mail to:

insider-html-on@seidman.infobeat.com

To unsubscribe to either version, send e-mail to:

insider-off@seidman.infobeat.com

No subject line or body text is required for any of the above instructions. If your particular client requires something to be in the subject line or body of the message, it doesn't matter what text you enter.

[Back to contents]

MAY 17, 1998

Baconis



NET EFFECT

Use a 'robot' to search the vast Internet

RAFAEL M. ESPINOSA Online Editor

n the world of online searching, performing a search on separate engines will often produce extremely different results - and waste valuable time.

With the help of specialized Web robots and powerful search agents, engine sites are now able to provide and pinpoint more exact searches for Web users.

Web bots, more popularly known as spiders or crawlers. are bits of automated software used by search engines like Excite and Lycos to explore the Web and retrieve related hyperlinks.

The software generates categorized listings based on instructions provided by a search engine and can be specialized for different purposes.

For example, a bot can be designed to search only those sites containing financial information as opposed to those sites with news or sports data - thereby saving time for Web users by restricting the search to only a certain portion of the Web.

BotSpot's Web site contains a wide collection of Web bots and information on how they function (a complete list of Web site addresses is available

Jun. 25 1998 11:198M R2 PHONE NO. : 415 896 1894 und skins, champiny and energy

Visitors to the site's BotSpot of the Week Archive can find links to specific bots specialized for different areas of knowledge. The different search areas include commerce, government, news and software.

One robot, URL-Minder, stands out from the rest of the

The free service consists of a specialized search robot that conducts ongoing searches and keeps track of Web pages for users regardless if they are online or not.

First-time visitors to the site are asked to fill out a short questionnaire and provide e-mail information. Visitors can then enter the urls (Web addresses) for the Web sites they wish to monitor and the frequency of their e-mail undates

Another unique feature is the ability to monitor only certain portions of Web sites and notify users when relevant information is posted.

Search agents also help make the Web more intuitive by steering Web users to related sites based on their surfing habits.

Two navigational utilities. Alexa and NeoPlanet, consist of small toolbars that work with existing Web browsers. The toolbars accompany the browser and help direct surfers to their next site by providing a list of related links and information.

Alexa's simple interface provides suggestions based on the current site and list the site's owner, address, rating and popularity. Additional information can be found by clicking on any one of these items

Users also can utilize the service's built-in search capabilities including desktop references like Encyclopaedia Britannica and the Merriam-Webster Dictionary.

Web novices and children will find NeoPlanet easy to use

The service, based on channels, provides a listing of related Web sites within nested folders on its control panel. NeoPlanet also allows users to

Please see ROBOT, 5F

(1

From Page 4F

perform Yahoo! searches directly from the browser without directly going to Yahool's site

Both services can be downloaded at no charge from their respective

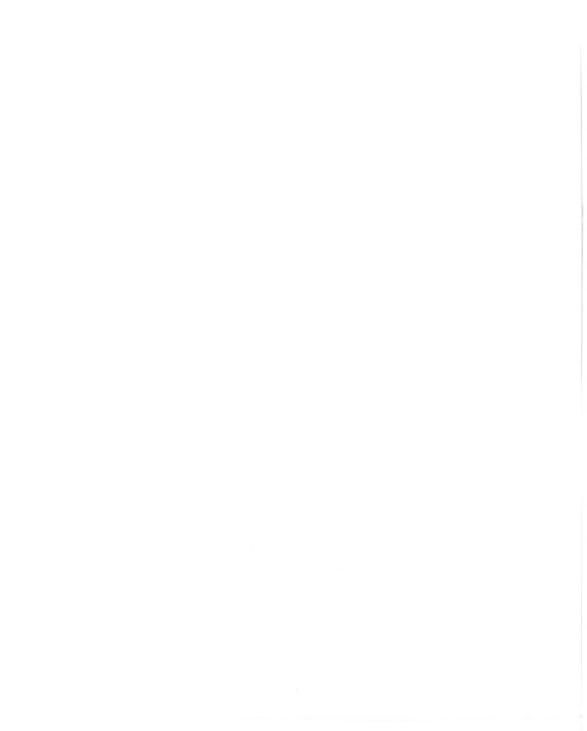
A similar service named Edison! is designed to make the Web more accessible by assembling a collection of 3,000 links and search utilities.

The site also allows visitors to download a version of Edison; onto their local drive to improve their search time. The downloadable version is available for most platforms in either a zip or self installing format.

Further information on Web robots and search agents can be found at both Search Engine Watch and The Spider's Apprentice.

For more information. visit the following sites:

- Alexa www.alexa.com ■ All—in—One -
- www.albany.net/allinone
- BotSpot www.botspot.com
- Edison! www.edison.com
- Excite www.excite.com
- Lycos www.lycos.com
- NeoPlanet —
- www.ueoplanet.com
- Search Engine Watch -
- www.searchenginewatch.com
- The Spider's Apprentice www.monash.com/spldap.html
- URL Minder www.netmind.com
- Yahoo! -- www.yahoo.com
- Online Editor Rafael M. Espinosa can be contacted by e-mail at nine ws@beaches.net or through The News Herald Web site as www.newsherald.com



18C - 1570

MAGAZINE

MACWEEK San Francisco, CA

Circ - 85.000 Weekly



Electric Café to shake up Web graphics with Twitchy

By Rebecca Gulick

Targeting the expanding market for Web graphics software, Electric Café Inc. this month announced an all-in-one tool for creating common Web page elements.

Code-named Twitchy, the product will let advanced and novice Web designers create animated banners, navigation bars, buttons and backgrounds. A pub-

lic beta will be available in July; pricing has not been set.

Electric Café said Twitchy will offer a complete drawing and painting environment, as well as a preview function for interactively balancing a graphic's image quality with download time. It will save images in standard Web formats, such as GIF, IPEG and See Electric Café, Page 8

Electric Café will serve up one-stop Web graphics tool

From Page 1

PNG (Portable Network Graphics), and offer optimization features, including color palette reduction. Twitchy will also include automatic frame differencing, where only changed portions of an animation are saved.

Electric Café said the software will automatically create image maps when users drop URLs onto graphics. It will parse a graphic, such as a navigation har, and create an HTML table for it, the code it generates can be dropped directly into an HTML authoring tool. Twitchy will also automate the process of creating JavaScript rollovers, the company said.

Twitchy will let users animate graphics and effects using a simple drag-and-drop interface and make adjustments in the time line as the animation plays. In addition, animation effects such as transitions and motion can be dropped directly onto shapes, and an onion-

skinning feature will let users compare the graphics on previous and future frames, Electric Café said.

In addition, the company said Twitchy will be able to generate graphics that are auromatically updated with information from a database, spreadsheet or script. Users will create a template and specify elements such as text, colors and pictures to be updated in the graphic.

"Twirchy was surprisingly cool," said Darian Patchin, product marketing manager at San Francisco-based Alexa Internet, who saw an early version of the software. "It tokes the basic functionality of programs like [Adobe] Photoshop and [Yves Piguer's] GifBuilder and combines them into one easy-to-use tool."

Electric Café Inc. of San Francisco can be reached at (415) 675-7480 or (800) 380-3532; fax (415) 675-7490; info@eleccafe.com;

www.eleccafe.com.





Click Here To See ** Osoft W ndows 98 * Speed Doubler 8 * Norton Utilities 3.6 * Quicken Delton

Garis Home Page 3.0 * Connectix Doubler Pak * The Complete National Geographic * Dogs

Caris Home Page 3.0 * Connectix Doubler Pak * The Complete National Geographic * Dogs

Caris Home Page 3.0 * Connectix Doubler Pak * The Complete National Geographic * Dogs

Caris Home Page 3.0 * Connectix Doubler Pak * The Complete National Geographic * Dogs

Caris Home Page 3.0 * Connectix Doubler Pak * The Complete National Geographic * Dogs

Caris Home Page 3.0 * Connectix Doubler Pak * The Complete National Geographic * Dogs

Caris Home Page 3.0 * Connectix Doubler Pak * The Complete National Geographic * Dogs

Caris Home Page 3.0 * Connectix Doubler Pak * The Complete National Geographic * Dogs

Caris Home Page 3.0 * Connectix Doubler Pak * The Complete National Geographic * Dogs

Caris Home Page 3.0 * Connectix Doubler Pak * The Complete National Geographic * Dogs

Caris Home Page 3.0 * Connectix Doubler Pak * The Complete National Geographic * Dogs

Caris Home Page 3.0 * Connectix Doubler Pak * The Complete National Geographic * Dogs

Caris Home Page 3.0 * Connectix Doubler Pak * The Complete National Geographic * Dogs

Caris Home Page 3.0 * Connectix Doubler Pak * The Complete National Geographic * Dogs

Caris Home Page 3.0 * Connectix Doubler Pak * The Complete National Geographic * Dogs

Caris Home Page 3.0 * Connectix Doubler Pak * Doubler Pa Microsoft Office 98 • Norton Utilities 3.5 • Moafee VirusScan • Claris Home Page 3.0 • Speed Doubler 8 Quicken Deluxe • Conflict Catcher • Surf Express 1.1 • Adobe Illustrator 7 • Eudora Pro Email 4.0

TONET -NEWS "INTERNET "PRODUCTS "NETBUYER "DOWNLOADS "MAC "GAMES *HELP! *SMALL BIZ *LEARNING *MAGAZINES *INVESTOR *ANCHORDESK -COMMUNITY -E-BUSINESS



LIBRAR	Download Basket
Internet / Web Browsers	SOFTW/ BUYLI
All O Internet O Internet / Web Browsers	The Softwa

Alexa

05-26-98

Alexa Internet

Alexa is a free Internet navigation service. Its toolbar-based interface launches when you start your Web browser to give you background information on many of the sites you visit, including a "thumbs up" or "thumbs down" from other Alexa members who have previously visited the site. In some cases you also get targeted suggestions of where you might want to go next based upon anonymous navigation choices of all Alexa users. Should you navigate to a Website that is currently unavailable, click on a button, and Alexa presents you with a copy of the page directly from its online archive. Alexa also features buttons that connects you to Merriam Webster's Online Dictionary and Thesaurus, and the Encyclopaedia Britannica. Reviewed on Nov 26 1997.

System Requirements Windows 95

Purchase Information Free



Download Nov

Add to Basket look in basket

See Related Titles

Rating ***

Version Number

Downloads to Date 19.539

Compressed Size 1,629,929 bytes

E-mail this Print this

SPONSORED LINKS

Invest GOMEZWIRE... The choice for insight into online investing. Finance Manage Your Investments with DLJ's Free Software Download Software Visit Chumbo.com, the Ultimate Stop for Software Online

ZDNET FEATURED LINKS

Downloads The top 20 free downloads from the Software Library E-mail ZDNet Mail: Get your free, private e-mail account!

MAGAZINE OFFERS

Best Offer Get PC Magazine for over 70% off and get 2 FREE CD-ROMs

- A ZDNet Site ZDNET HOME SITE MAP | SEARCH ZDNET | WHAT'S NEW | AD INFO | CONTACT US

Database keeps pages from becoming history

Some years ago, Francis Fukuyama yarde a quirky and Lascinstafing easay called "The End of History", in which he speculated that liberal democracy might be what he called the "and point of mandkind a Idealogical evolution. Fukuyama's nodron is more than a lietle debatable in the political realin, but you can select he afferent end of history when you contaider our increasing eliance on digital materials.

What if we put everything online, rom our retail catalogs to our archives,

Its a problem that Web users run into every day. Working on a research project, I recently compiled dozens of articles, many of them only available in longer accessible because of expired links. Where did they go, and how can I cibe them in a bibliography if they're online form, for my bibliography. Six weeks after finishing the document, I went back to double-check my sources, only to find that three of them were no and the hyperlinks fail? roing to disappear?

ence at one time or another. You find a hyperlink to a page that seems ideal for your purposes. But instead of loading the page, your browser displays an error message telling you that the document cannot be found. And here's a statistic I'm sure you've had the same expen-One solution is to use Alexa, a pro-

gram that taps a vast archive of Web Computer Focus by Paul Gilster

entirely by their owners. Using Alexa is this bearing as library of back issues of magazines and newspapers, only for Web pages instead of print. It's a kind of snapshot of the Interact at various points in its history. The free program runs as a toolbar on your deaktop and pages, including those that have changed address or been removed launches when you open your browser.

information, considering that the Web is doubling every six months, it should be brice that now. To give you a sense of while the entire Library of Congress, if reduced to pure text, houses 20. The cur-THE ALEXA database contained, as of late 1997, over eight terabytes of negabytes. A typical public library conains three tarabytes of information, scale, one terabyte is

what Alexa's parent company does is to make a complete copy of the Internet every 30 to 60 days. The company, Alexa I use the term "current Web" because ment Web takes up about five terabytes.

is the brainchild of Brewster Kahle, inventor of the Wide Area Information Servers system (WAIS) that was one of Internet, is based in San Francisco and the earliest Internet search tools. Kable now provides Alexa to end users and operates the database that maintains and feeds it information, a huge project Internet www.archive.org).

Kahle is not a believer in history having an end, which is

Using Alexa is like only for Web pages having a library of back issues of · magazines and newspapers, why he insists that we find ways to document and preserve the mutacyberspace publishing. historian David Allison of the Staithsonian Institution nas used materials from he archive to create an exhibit of presidential election Web sites, naterial that might otherwise pass into obliv-

Already,

ial debates between Nixon and ion without our access to the presidenotes are counted. Think of the 1960 elecrotes

on the day after the

Kennedy and you begin to see the rele-vance of saving such information. And it works for everyday Web work as well. Alexa will search for any page that has been removed from the Web and display it for you. It's not perfect, for the Web is always growing and the archive can never be complete, but if Alexa can find the expired page in its archive, you can still recover and use it.

ness or government to control an out-

OF COURSE, issues of privacy come amediately to mind. What happens if someone creates a Web page with perwants to remove from circulation? The

nature of online publishing and copyright must be resolved. By building this ways forces the issue, and it's one that needs fast resolution considering the numerous questions involving the archive now, Kahle's company in some impermanence of online data

But Alexa does more than dig up old
Web pages. It also crashes "Where to Go
Next" suggestions. The enthware anslyzes pages and sees what other pages
have links to them.
When your browser
When your browser Web page, Alexa records the visit and

the path through related sites, all on an anonymous basis. It about similar pages. Teachers tell me they're seeing more and more students more students also lets users offer beir own suggestions

in brick-and-mortar libraries — tradi-tional print materials — that should be examined before jumping to conclusing to about any subject. If this trend confin-ues, will a missing hyperlink mean that critical information can be erased in relying on the Internet for their research; in vince the lidds that there are materials Orwellian fashion, manipulated by busimany cases, the challenge becomes to coninstead of print.

both the online Encyclopedia Britannica and Merriam Webster Dictionary You'll need a 466 or Pendium processor and 3 MB of free disk space to run it. For more information and a free download, Now there's an "end to history" that's lions, but Alexa is a first-generation tool that points to a possible solution. The tion about each site and quick links to positively Kafka-esque in its implicaprogram provides background informs-

Copyright 1898, Paul Gilster



May. 18 1998 01:51PM P6

vote once per site, and currently most sites have very few votes. However, if more people start using the voting capability, it could become a useful way to evaluate a Web site.

ADVISOR

The right end of the Alexa bar offers suggestions of other sites to visit, access to the Internet Archives, and quick reference tools. The suggestions for other Web sites are based on travel patterns of other Alexa users. Some are relevant, while others are not. For example, if

It's an interesting idea, but the related link feature is far less practical for navigating the Web than the likes of Yahoo!, AltaVista, or Northern Light.

ARCHIVE AND MORE

Of far more value is the page icon that can pull up pages from the Internet Archives. This button makes pages available that have been moved, taken down, or are otherwise currently unavailable. When a page is not available, click Alexa's archive button to see what the page used to look like. When it

Product at a Glance

Alexa

http://www.alexa.com

System Requirements: 486 or higher, Windows 95 ar NT 4.0, Netscope 2.0 or higher, or Internet Explorer 3.0 or higher

Price: Free, advertiser-supported

Pros: Access to archived Web pages, reference tools, Web site statistics

Cons: Still buggy, suggestions of related sites not always relevant, runs on limited hardware platforms

The rating for the number of visits is for the Web site as a whole, based on an analysis of traffic through major Internet hubs.

you visit the Washington Post site, Alexa suggests links to USA Today, the New York Times, and the Wall Street Journal, along with the strange Mr. Mcdia site. From the Online Inc. site, the advisor points to PC Card Bookstore and Virtual Book Stop! of India. Occasionally, the suggested links do not work, display strange characters like Estuacute; dios Disney (which links to Disney's site), or even a link to a bad address.

works, Alexa retrieves the most recent version of the page available from the archive. Unfortunately, for most pages I tried, Alexa was unable to find archive copies. This function still needs refinement, an expansion of the number of accessible pages, and more information, such as the date when the page was archived.

Moving further to the right end of the toolbar, the EB book icon brings up options to search and connect to some standard reference sources including a dictionary, thesaurus, and encyclopedia. The dictionary and thesaurus are available free, but the encyclopedia connects to the full Britannica Online, which is only available to subscribers, or to non-subscribers in a limited version.

Since Alexa is advertiser-supported, ads also appear on Alexa's bar. They are unobtrusive, but easy to see. Click on one, and the advertiser's site appears in the browser. Unfortunately, some ads clicked to dead links with no archive page available. In addition, if Netscape Navigator was in a framed document, clicking on the Alexa ad would place the advertiser's site in only one of the frames.

THE BOTTOM LINE

Alexa provides some useful information and connections for the heavy Web user. The software requires minimal effort to download and install, but it takes time to fully appreciate all its features. For the casual Web user, Alexa may be overkill, but for those who regularly need to track ownership and statistics of Web sites, or who may need access to the Internet Archive, Alexa is well worth the download.

Communications to the author should be addressed to Greg R. Notess, Montana State University Library, P.O. Box 173320, Bozeman, MT 59717-3320, 406/994-6563, align@montana.edu. http://inu.net/~notess/.

ADD A LINK TO THIS LIST...
LEXIS Document Services

Ноте

Go Next

Where to

Counsel Connect

Library of Congress Home Page

InfoTrac Homepage

legal information institute

The Law of Cyberspace (Internet resources)

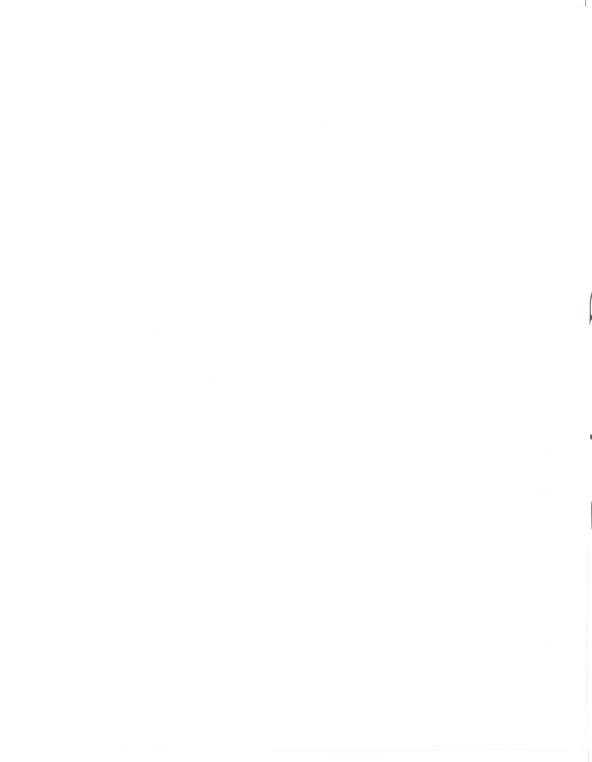
American Intellectual Property Law

Association (AIPLA)

AltaVista: Main Page

EUnet sterreich

The Where To Go Next advisor display from the LEXIS-NEXIS page



Technology Tom Watson

Alternative doorways to the Internet are popping up in the spirit of free-flowing information.

HERE were only a few snickers last week at a new-media conference in Chicago when someone asked a group of executives from Web-search companies which of them would be the first to buy a major television network. It was a sign of just how quickly the likes of Yahoo, Lycos, Excite and Infoseek have grown, how grand their mass media dreams have become and how much their original vision of the World Wide Web has changed.

No longer content to direct a user to the Web sites most relevant to the individual's interests and tastes, the former search services are intent on creating "portals" to the Internet, complete with dial-in service, free Email and personal Web pages, paging and messaging, customized news, local weather and stock tracking. The aim: get the suckers under the tent and keep them there. That's a radical departure from the original business model of catching the customer's eye on the way to other sites.

The original search model was deeply steeped in the Internet ethos - the idea that information and traffic flows freely from site to site and value is added by serving that urge, not resisting it. It is an ethos that favors entropy over organization, an open range of Web publishing compared with the stockyard chutes of the portal sites. And it is an ethos that for many in the Web business still endures — despite the portal fad.

"There are between 5 and 10 million content areas on the Web, and in many ways the Internet is more like print publishing," observed Brew-

Mr. Kahle is an Internet pioneer whose 1989 invention, the Wide Area Information Server — or WAIS was a pre-Web system for searching distant data bases on the Internet. He later sold his on-line and software publishing company, WAIS Inc., to America Online.

The main portals are following a model that mimics the control and distribution of cable television networks. But Mr. Kahle thinks that is the wrong model. "There are 16,000 journal publishers in print, real diversity. And everyone's experience is different. Do we need a TV Guide? I think we need something a little more sophisticated.'

Certainly the current search services are far from exhaustive. A study released last month by the NEC Research Institute of Princeton, N.J., indicated that even the most thorough service. Hotbot (www.hotbot-.com), has indexed only 34 percent of the Web's estimated 320 million

But Mr. Kahle is hardly a disinterested observer. He is the president and co-founder with Bruce Gilliat of Alexa Internet, a two-year-old startup company based in San Francisco. Their product is Alexa, part Web browser, part navigation service. Users download the software from www.alexa.com free, after which Alexa manifests itself as a thin toolbar under the regular Web browser - whether the PC is using the Netscape Navigator or Internet Explorer from Microsoft.

Alexa offers quick access to information on each site visited (who owns it, how much traffic it gets, and how Alexa users rated its content). provides links to other similar sites and, lately, tiny advertising messages keyed to the user's browsing selections. About 350,000 copies of the program have been downloaded and there are 100,000 regular users, according to Mr. Kahle.

Alexa is a geeky end-run around the sleek mass media dreams of the search engine companies. While Excite, Yahoo, Lycos and Infoseek are adding as many features as possible to keep users on their sites for as long as possible, Alexa encourages wide and frequent grazing by recommending sites wherever the user's interests may lead, based on the person's past preferences — and based on the preferences of other users who have frequented the same sites.

Mr. Kahle calls this approach "contextual navigation." The more users in Alexa's data base, the better the similar-preferences software works - and the more precisely that Alexa can tailor its ads to individual users. In other words, the more that users surf outside the main portals, the better Alexa's revenue stream.

Alexa is named for the library of Alexandria, the ill-fated attempt of the ancient Greeks to amass all of the literate world's printed knowledge. And in keeping with this ideal, Alexa brings the emphasis in Web navigation back to content - not just a reader's digest of the Web

And yet, in choosing to name his venture after an ambitious idea that ultimately fell short. Mr. Kahle is im-



plicitly conceding that the sheer size, growth, and second-to-second mutability of the Internet makes it almost impossible to amass the collected works of the Web. The reason the current search services consistently rank among the most popular Web sites is that many people presumably do want some winnowing.

But the mass-market model need not be the only portal approach. "We believe that people are more in need of filters than catch-alls," said Rufus Griscom, co-founder of the artily erotic on-line magazine Nerve (www.nervemag.com). That is why Nerve, which bills itself as "literate smut," has created its own, more narrow portal: a directory of sexually oriented Web sites.

And Nerve it is not alone in providing a narrower doorway to the Web. Alternative portals are everywhere, including Razorfish's "Disinformation" search engine (www.disinfo-.com) that provides links to various subculture sites, and "John Skilton's Baseball Links" (www.baseballlinks.com), perhaps the most complete guide to baseball on the Web.

These alternate portals are evidence of the Internet ethos that refuses to conform to a mass media structure. In their race to emulate mainstream media giants like Time Warner, CBS and Disney, the search engines may be forgetting the very phenomenon that brought them into being: the Internet is a medium of creators as much as it is a medium for consumers.

Tom Watson is editor and cofounder of @ NY (www.atnewyork-.com), an information service that focuses on New York's interactive



THE WALL STREET JUURNAL.

© 1998 Dow Jones & Company, Inc. All Rights Reserved.

VOL. CXXXVIII NO. 103 WE/PA * * *

THURSDAY, MAY 28, 1998

INTERNET ADDRESS: http://wsj.com

TECHNOLOGY JOURNAL / NET INTEREST

WATCHING THE WEB

BY THOMAS E. WEBER



NETMARQUEE FAMILY BUSINESS NETCENTER Operators of family businesses can read about trends and strategies at this site produced by a Web-publishing and marketing company. Interesting information is scattered throughout the site, but digging it out requires some work. The News and Comment section offers a weekly digest of articles from dif-ferent sources. The articles cover a mix of topics concerning small businesses and family-owned businesses, though considering the site's title, an even tighter focus on family companies would be nice. For in-depth reading click on the Article Search option for access to a database of research. You can search by keyword, but you'll probably have more luck by clicking on one of the predefined searches, such as "sibling rivalry" and "estate plan-ning "The NetCenter also includes links to a variety of university centers devoted

http://nmg.com

to studying family businesses.

ARTHUR ANDERSEN CENTER FOR FAMILY BUSINESS Big Six accounting and consulting firm Arthur Andersen has created this site, which family-business operators will probably find a worthwhile stop. One main feature: the results of a detailed survey of 3,000 family businesses. For family-business operators, the results can serve to provoke questions or suggest possible actions. For instance, the survey explains what family business op-erators are thinking about corporate structure and estate planning. It also offers data on the growing role of women in family companies. In a separate link from the home page, the Keys to Family Business Success department discusses such questions as whether to create a charitable foundation or even whether to sell the family business. A special section on succession looks at finding advisers, keeping the company ownership structure simple and adding outside directors to a com pany's board.

http://www.arthurandersen.com/bus_into/ services/ctb/index.htm

AUSTIN FAMILY BUSINESS PROGRAM THIS site comes from a special (amily-business program at Oregon State University's College of Business in Corvallis, Oze. Much of the site's offerings are local—such as a calendar of events for family-business operators. But there's also enough general information to make this site worth a stop for visitors outside Oregon. Click into the Information by Topic section for general discussions on everything from human resources to family relationships. The discussions undiversible for the programment of the second of the second

http://www.bus.orst.edu/lam_bus/ afbphome.htm ANCHORED DREAMS A different kind of family-business site. Anchored Dreams focuses on couples starting or running their own companies. Produced by the author of a book on the subject, the site looks at common mistakes ("not involving... spouse enough") and questions to ask to determine whether your relationship can handle starting a business. Updates are rare here, but much of the information isn't time-sensitive.

http://www.ltbn.com/azriela/

BARBECUING AND

Word. Wide WEBER This site, from the manufacturer of Weber grills (no relation to the author of this column) offers plenty of tips for backyard chefs. The selection of recipes includes a special section on preparing ribs—"please don't precook your ribs," the site advases. There's also a nice selection of grilling tips, but they're presented a bit awkwardly. You don't get the chance to select the tips you're interested in from a menu. Instead, you'll need to cycle through each tip to see them all. Also helpful: a chart that lists cooking methods and times for different meats and vegetables.

http://www.weberbbg.com

LET'S Q You won't find any frills at this site—just recipes and links And don't get confused. The subject here is not grilling. It is barbedung, slow-cooking meats with wood smoke. Most of the rele-

vant information is packed into a list of FAQs, or frequently asked questions, compiled from an on-line barbecue discussion. Learn about different kinds of smokers, which kind of wood to use and how to build a pit. The FAQ list also takes you through the cooking procedures for every conceivable variety of meat.

http://www.eaglequest.com/-bbg/index.html

ROLLER COASTERS :

TABILEROE. If this summer promises the chance to ride a few roller coasters, scope out the possibilities at this site. You'll find lovingly written descriptions, penned by an enthusiast, of foller coasters and other theme-park thrill rides. In addition to write-ups that chronicle every twist and turn on individual coasters, Thrilliked also offers news and rumors about attractions under development. There's just now fores new sun framer shows the site of the properties of the

http://www.lhrillride.com

ROLLER COASTER DATABASE To get really choosy about rides, consult this database of 450 roller coasters. You can enter the type of roller coaster you're looking for (wooden, inverted, etc.) or the park or state you'll be visiting, and then see a report of the available coasters

http://roller.coaster.net

A CLOSER LOOK

A Guide to the Web

GOOD ADVICE IS HARD TO FIND. THAT
makes Alexa, a unique Web-search tool, a

helpful companion.

Alexa (http://www.alexa.com/ is another variation on what the tech-savvy types call collaborative filtering. That means Alexa draws on the experiences of all its users to recommend sites you might find interesting. The problem with such systems. Without lots of users, they just don't work well—think da survey in which only a handful of people are polled. When Alexa first showed up last year, that was the case. But now, after months of Web-cruisers using Alexa, the recommendations are starting to show some promise.

nons are suring us now some promes. To use Alexa, you was it is Web site to download a special piece of software. Once you've installed the program, a ramit toolbar appears below the window of your Web browset. Each time you call up a Web page, the Alexa window suggests other sites you might want to visit. (Olf course, there's no such thing as a free funch—the Alexa window also displays constantly changing disc.) When I comes to major sites, Alexá serciommendations are often squarely on target. Call up Microsoft Corp's Carl Forth automotion of the common site of the common site of the toloking also at the Edmund's and Kelley Blue Book sites—both excellent car-knopping resources. But venture to a less popular site and you may find yourself on your own. Alexa was speechies when it came to the official site for the "Dayworks Ceres" television store.

the "Dawson's Creek" television show. The Alexa toolbar includes some other nitly functions. It can tell you how popular site is and who created it. Click on a button tabeled "EB" and you can access brief Encyclopacida Battanica entries or look to words in a dictionary. Most impressive of all, thanks to an archive of Wes sites, Alexa can sometimes poul up Web pages for you even after they've been deleted.

Alexa's functions don't always work perfectly. But its recommendations can often be helpful, and its slender window takes up only a fraction of your screen. That adds up to a search tool worthy of a test drive

We welcome any comments. E-mail us at net interest ≩news wsi com

June 1998

Alexa: Web Archive, Advisor, and Statistician

TableBase: Numeric Tables Online

Opera—The Little Browser That Can

Alexa: Web Archive, Advisor, and Statistician

by Greg R. Notess

he interconnected nature of the Web and the availability of advertising-supported services stimulates some creative ideas for finding information on the Web. Now, from Brewster Kahle, the originator of WAIS and founder of the Internet Archive, comes Alexa. This intriguing Web tool functions as a statistical information source for Web pages, an advisor suggesting related Web sites, and an archive of the Web of the past.

Alexa shows up on the screen as a thin toolbar, running in conjunction with a Web browser (minimum of Navigator 2.0 or Internet Explorer 3.0). The toolbar floats above or near the browser window, but can be moved anywhere on the desktop. Currently, Alexa only runs on Windows 95, but perhaps by the time you read this, it will also be available for Macintosh and UNIX systems.

STATISTICS

The Alexa toolbar makes excellent use of screen real estate while your browser is open. Almost every part of the bar is clickable. The left end. Where You Arc. provides basic information about the site. The two lines of information on the left show the domain owner's name and a measurement of how frequently the site is visited. Click on the sideways arrow for more detailed information about the site. Note that this detailed information is about the entire site, not just the page currently displayed. The rating for the number of visits is for the Web site as a whole, based on an analysis of traffic through major Internet

hubs. The ownership information is culled from InterNIC records. Other site statistics include the number of pages indexed on the site, the speed

Click any item for more details.

* RATINGS

Visits: 80 0 9 0 0

3 Like, D Dislike

Alexa Visits: 1,408

O SITE OWNER

Lexis-Nexis

9333 Springboro Pike

Miamisburg, OH 45342

Phone: 937.865.7803

AL STATS

Are

You

Pages: 1,425

Speed: Average

Freshness: Fresh

The Where You Are statistice display for the LEXIS NEXTS aite

of the site's server, and a measure of "freshness."

Alexa users can vote on how well they like a site. Each user can only



The main Alexa toolbar

FOCUS ON

Opera—The Little Browser That Can

by Gary Price
The George Washington University

espite a minimal cost (\$30) and small size (1MB), Opera is a World Wide Web browsing tool that gives a stellar performance. While the product presently appears only on the Windows 95 and Windows 3.1 platforms, Opera might be an excellent choice as a primary or secondary browser, depending on your needs and resources.

CURTAIN UP!

I first saw reviews of Opera on a library listserv in the fall of 1997. This review is based on a beta version of the soon-to-arrive version 3.0; it can be easily and quickly downloaded from the Web site (http://opera.nta.no). Developed and written by Opera Software AS in Oslo, Norway, the program is shareware. A fully-functioning 90 day evaluation copy is available; after the witching hour the program renders itself unusable unless purchased.

I ran it on a Pentium with 16MB of RAM, but the company proudly states that Opera runs well on 386sx machines with as little as 8MB of RAM, and can even run with as little as 4MB. This makes Opera an excellent choice to run on older machines that have not been upgraded and cannot effectively handle Netscape Navigator or Microsoft Internet Explorer, For organizations such as educational centers, other nonprofits, and older parents who have inherited their adult children's castoff computers, Opera might be a great option.

OPENING ACT

Despite its small size, Opera has clearly labeled buttons and options, and handles work on the busy desktop very smoothly and efficiently. The display bar is an information center all its own and can easily be moved to the top or bottom of a window. The bar tells you how much time a page has been loading, how many bytes per second are being received, the number of images to be

loaded, and how much of the text has been loaded.

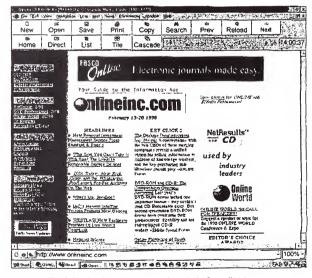
Opera allows for the bookmarking of sites with a feature called "Lists." Lists and sublists can be made, but bookmarks from Netscape Navigator and Microsoft Internet Explorer cannot be imported without obtaining an additional piece of software. For those in networked environments, Opera allows for a systemwide list of sites.

IT SINGS!

My bota version worked well with numerous plug-ins and it handled Web pages with frames without a problem. Its customization options for individual or group usage are wonderful. Just about everything the program offers—from associating programs, such as Real Audio and Adobe Acrobat, to choosing not to accept cookies, is done easily and quickly. Additional customization options include a toggle to turn off all graphics and page backgrounds as the page is loading, the ability to toggle the menu bar on or off the screen, and the option to make active links stand out via a 3-D view, to name just a few.

Perhaps the most useful customizable feature is the Opera cache. You can choose whether or not to cache images, text, or other page features. You are also given the option to have the cache clear itself automatically upon exiting the program. These features contribute to making Opera an excellent option for both kiosk usage and as an offline browser—it

Opera [is] an excellent choice to run on older machines that have not been upgraded and cannot effectively handle Navigator or Explorer.



The Online Inc. home page as seen through the Opera Web browser

does not require

(OCUS) ON

does not require telecommunications software to operate. Documentation is provided via a Help function, a Web accessible bulletin board, and mailing list, and fee-based consultation makes even more customization opportunities available.

INTERMISSION

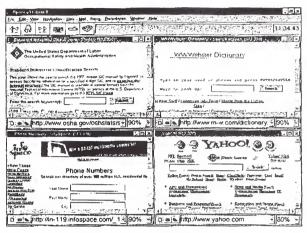
Of course Opera does not have all the bells and whistles that Netscape Navigator/Communicator and Microsoft Internet Explorer do. In fact, it is difficult to make comparisons because Opera does so much with so little. Nonetheless, limitations must be noted.

Opera lacks an incoming mail program, although an outgoing mail window is provided. Other mail products (Pegasus, <u>Eudors</u>, etc.) may be associated with the program to run at the appropriate time.

Opera is Javascript-ready, but does not run Java. I did not find this to be that large of an issue, at least at the present time.

Perhaps the worst inconvenience is that Opera's newsreader does not allow for downloading and reading news offline—newsgroup postings must be read while connected to the Internet.

Finally, the program does not access Gopher/WAIS sites without configuring a proxy server to reach them. Again, this does not posc as large a problem as it once would have, since a great deal of the material



Working with multiple open "Stages" in Opera

available via Gopher has migrated to WWW servers.

ORCHESTRATING A REPRISE

An especially useful feature is the ability to have numerous pages or windows opened simultaneously. These windows (Opera stages?) are viewable on the main program screen and can be tiled or cascaded for a quick overview look. For those who monitor numerous news sources on a constant basis, this

AFTER THE SHOW (THE BOTTOM LINE)

Some would say that Opera's competitors are essential products that are on almost every user's desktop, so why is this product necessary? If space, ease of use, and several unique features are important to you or your applications. Opera is worth knowing about. With a 90-day free trial and a simple download/installation process, it may be worth your while to invite Opera to perform on your computer.

If space, ease of use, and several unique features are important to you or your applications, Opera is worth knowing about.

Product at a Glance

Opera

http://opera.nta.no

Price: Fully-functioning 90-day free trial; \$30 to register.

Pros: Small size (only 1MB) Web browser with numerous customization features and full functionality via keyboard commands.

Cons: No outgoing mail program; no Java; Usenet news must be read online. feature can be very useful. Couple this feature with the many news sites that use the meta-refresh tag (which Opera handles) and you have a continually updating news resource. If meta-refresh is not available or you want to update all open windows at the same time, you can do it with a single keystroke. Although working with several open windows is a bit confusing at first, it becomes a big time-saver after a short time. I have easily designed a program screen of my frequently accessed sites.

ENCORE

Opera's development team realizes that some WWW users are disabled and addresses some special problems by making all of Opera's functions available via either mouse clicks or keyboard commands. The browser also has the ability to view pages with a magnification feature that can increase or decrease a page's size on the screen between 20% and 1000% of actual size.

Communications to the author should be sent to Gary Price, Subject Specialist, George Washington University-Virginia Campus Library, Ashburn, VA 22011; 703/729-8235; Fax 703/729-8237; gpric@gwis2.circ.guw.edu.

The Internet

Services aim to give searchers directions

By Paul Bissex SPECIAL TO THE TRIDUNE

When I first started playing with the Web in 1994. I collected a lot of paper, from photocopied magazine listings of sites down to notepad scraps with handwrilten Web addresses. I had a folder for all these pleess of paper. Though I rarely oponed it, it gave me the sense that I could find what I needed in this strange new medlum.

Of course, I soon learned the lesson that every World Wide Web afficionado learns: paper listings and manuals are the training wheels of the Web. There's no point in laboriously typing in URLs when lists of sites abound on line

No self-respecting site is without a list of pointers to other sites of interest in fact, the first project many amateur Web authors attempt is a nothing-but-links site. Some users even post a copy of their browser "Favorites" or "Bookmarks" for all to see. And even when a list structure isn't used. It's a rare site that doesn't point to several other sites.

Producing lists and selecting pointers is work. It produces something that wasn't there before, idealty something useful. Anyone who has done a significant amount of research on the Web has benefiled from lists that others have hade.

It's ironic that the best lists are so rarely found in the places that purport to provide them: search sites (or "Web portals" as they now want to be called) such as Yahoo, Lycos, and Infoseek. The whole point of searching is to get addresses of sites that are relevant to a specific question, yet search results are notoriously uneven.

According to a recent report by the electronic journal Edunage, researchers at 11M and at Cornell University are working on a relatively simple solution to this problem. They have collaborated to produce a new filtering technology that actually taps into the collected wisdom in all those human-made lists and links.

What the new technique does, essentially, is rank sites based on their popularity among their peers. It begins with an ordinary keyword scarch, then finds cross-references among the results. In other words, it finds a group of potentially relevant sites and then picks those most linked to by the members of the group listelf.

Other projects have tried

extracting uscful information from a mass of digital opinions. Firefly Networks, an MIT startup recently bought by Microsoft, spent a lot of time and money promoting its "collaborative filteriong" system. Firefly can offer recommendations on anything, in theory: books, movies. Web sites. It works by soliciting the opinions of users (who are identified to the system via a special "passport"), then making recommendations based on the preferences of people who like the same stuff you like.

I recently played with a Yahoo/ Firefly John project designed to suggest interesting new Web sites. It got a rough idea of my interests by noting the 523 different sites in my Netscape Bookmark file and asking me to rale the most prominent ones. Then the service started recommending sites, giving me the chance to rate cach one as I viewed it.

Behind the scenes it was saying, more or less, "This guy likes the Web zines (megazines) Salon and Fecd; a bunch of other users who like Salon and Feed also like Salon sand Feed also like Salon so let's recommend that."

The system actually suggested many sites that I like but which were not in my bookmark file—a pretty good indication of its reliability. Of course, there were many duds, too, and the rating process was tedious.

Another interesting product is a free Web browser add-on called Alexa. Developed by renowned Internet archivist Brewster Kable in San Francisco, Alexa's unobtrusive window gives you information about each site you visit, most notably its popularity with other users of the Alexa service. You can add your own opinion with a click. Alexa will also make suggestions about what sites you should visit next.

The catch-22 most of these services face is that they aren't very useful or rewarding to the user without gobs of data, and most people aren't going to invest time plugging in that data without a clear reward.

That's the beauty of the IBM/ Cornell approach. Rather than soliciting explicit recommendations or feigning human intelligence, the search services of the future may work by seeking out the wisdom that's aircady there.

You can pick up a Firefly passport (www.firefly.net) if you want to try its services first-hand. A free copy of Alexa can be downloaded from the Alexa site (www.alexa.com). Chicagolishone June 1, 1998

Rhapsody in Bluescreens

In the beginning, there was the studio back lot. Then movies went on location. Now sets can be generated on workstations, and only the camera and talent are needed. What studios crave are virtual sets that seamlessly combine footage of actors in real time.

In April the industry took a giant step closer to this techno nirvana. Tel Aviv-based entertainment firm RT-SET, in partnership with New York's 3DV, a manufacturer of virtual sets for TV broadcasting, claims to have developed a real-time system for film.

Here's how the technology works: First, a digital set is "built" in an SGI Onyx2. Then, in order to blend the five action and the virtual set, cameras are fitted with robotic heads, transforming them into motion-control cameras. "You can pan, tilt, and 200m the camera, and the virtual set will follow," explains 3DV president Al Rocco (left).

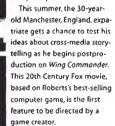
"The system raises the bar for what's possible in real time," says Greg Estes, SGI's director of entertainment marketing. Still, he doesn't predict a cinematic revolution just yet. "I think the coolest innucdiate application will be digital daities, where the James Camerons of the world can get a close approximation of what a shot could look like for real. But with the luxury of time, you can do a lot of things you can't do at 24 frames per second," such as detail renderings and compositing.

The producers of the Star Wars prequel are rumored to be doing just that. "We're in negotiations now for the first use on film," says Alon Carmeli, RT-SET's vice president of marketing. "This technology needs the support of talented filmmakers to create what could become a whole new lilm language." - Ron Mogid

Movie Commander

he movies I love and the games I love both share the same quality," says videogame auteur Chris Roberts. "They believably create an alternate universe I can escape to, whether

> it's for two hours at a movie theater or 20 hours in front of my computer."





– Matthew Hawn

Mortal Media: From Data to Dust

wike a loose thread on an ancient knit sweater, the 1s and 0s of digital documents can come undone over time, turning precious files into an incoherent jumble. Durable, long-term storage media aren't easy to come by.

Inexpensive CD-ROMs can become unreadable after only five years, although high-end products recently introduced by Kodak are intended to last 100 to 200 years. Of course, even if you do keep a disc for that long, there's no guarantee that the technology to play it will still be around or in working order.

Brewster Kahle, founder of Alexa Internet, a digital archive of the entire Web, has done a lot of thinking about this problem. "The general consensus among archive folks out there is that a long-lasting media type is not the answer." So Kahle has committed resources to back up or translate his

CD-ROM	5-200
Newspaper	10-20
Data-grade VHS tape	10-30
Digital linear tape	10-30
Magnetic tape	10-30
Microfilm	10-500
Kodachrome slides	100
High-quality acid-free \$	aper 100-500
HD-Rosetta	1,000+
Egyptian stone tablets	2,200+
*Depends on storage cor	nditions.

multimillion-dollar digital library every 10 years, "because if the media doesn't degrade," he says, "the platform will become extinct."

For those who can't manage longterm care and feeding of archives, the best bet may be good old retro analog. Norsam Technologies just released HD-Rosetta, a 2-inch nickel disc that its maker claims will be able to store up to 95,000 pristine images for more than 1,000 years. No digital equipment is needed to read the disc – just a big microscope. – Amy Johns

WIRED JUNE 1998



EISCAPE COMMUNICATIONS Corp. last week reported it broke even for its most recent. quarter, with net income of \$8,000 on revenue of \$127.2 million for the

three months ended April 30, 1998. The results were slightly better than Wall Street had expected, but it was hard to get a good fix on the company's financial health because of a shift in fiscal years. And they did little to alleviate concern over Netscape's long-term prospects or to prove whether it is successfully mak-

ing the transition it began in January when it stopped selling its browser. The company said in February it was changing its fiscal year from the

PHONE NO. : 415 896 1094

Netscape reported an operating loss of \$10 million in its new second quarter offset by \$1.7 million in interest income and \$8.3 million from the sale of securities, which it declined to identify immediately.

"These results show they're not tanking," said Ted Schadler, an analyst at Forrester Research. "They're marching forward, but they're not out of the woods vet."

Analysts were not entirely certain how to interpret the results. Netscape declined to restate historical data to reflect the new fiscal year, which leaves no historical

04 1998 04:58PM P2 AND SERVICES

MARCH 31 97 \$7.9M

METSCAPE CHANGED ITS FISCAL YEAR

" NET INCOME FROM APRIL INCLUDES \$8.3 MILLION FROM THE SALE OF SECURITIES SOURCE: NETSCAPE

comparison to the comparable period a year ago or to what would have been the most recent new fiscal first quarter of November, December, and January.

"It's hard to draw conclusions." said Andrea Williams, an analyst at Volpe Brown Whelan & Co. "Not restating historical estimates is not the most Wall Streetfriendly answer."

Nerscape did not specify what accounted for the January loss, though it listed a \$12 million non-recurring restructuring expense as a line item. January was also the first month the company had no browser revenue after deciding to give away the

UPDATE Netscape Unveils An Array of New Features For Its Netcenter Hub Site

By Whit Andrews

T IS TELLING that Netscape, in describing what a year ago would

have been called browser features. announced what it said are new fea-

tures of its destination site. Netcenter (See "Netscape's Netcenter Faces Battle To Retain Its Status as a Top Site," March 16]

Not all the changes that are expected to be in Netcenter soon will be browser-driven. In particular, Netscape's new personalization technology-which will serve users of e-mail accounts, forum identities, and personal news pages-will be almost purely site-related.

But major changes described for Netcenter include:

· A browser component that will aid surfers in finding sites similar to any they are visiting, using technology and an index licensed from agent startup Alexa (and returning the resulting clickstream database to Alexa for its use).

· A component update service that will notify users of updates to Netscape software and components made to work with it, in an effort to streamline the process of getting plug-ins.

• A search-from-the-toolbar option that harks back to an initial appear-



Many of the new features are browser-related, aithough Netscape is marketing them as components of Netcenter.

> ance in a beta build of Netscape 2.0 in late 1995. In this incarnation. the search box will seek keywords first in the InterNIC site database, then in a trademark database, then via enhanced Excite search, and then via a Net Search parmer.

> "I think one of the things we've found in user testing is that new users have trouble determining the difference between the location bar and a search box," said Jennifer Bailey, vice president of marketing for Netcenter. The feature seeks to erase the confusion by combining the two.

> The simplified search and siteslike-this features will benefit Netcenter by recommending its channels and features in which surfers might be interested, Bailey said. The features will be introduced in an incremental update of Navigator scheduled for this summer.

search: 880WSERS

IBM Strengthe With Messagin

By Anna Maria Virzi

BM's PURCHASE of two companies that provide real-time communications software is aimed at bringing that technology to the company's Lotus groupware package.

IBM recently announced that it will purchase DataBeam, a Lexington, Ky., company that develops real-time communication and distance-learning servers, and Ubique, a Rchovot, Israel, company that develops instant messaging and chat software. America Online, an investor in Ubique, relinquished its interest in the company. Financial details of the acquisitions were not disclosed.

IBM executives said they expect some of the new technologies will be included in Notes and Domino 5.0, expected to ship later this year.

Mike Zisman, Lotus executive vice president of strategy, said DataBeam's technology can be

LINKS FROM THIS PAGE Alexa -www.alexa.com DataBeam-www.databeam.com

IBM www.ibm.com ichnt inc.-www.iehat.com Notacapa Communications Corp.—kome.netscape.com 3985-A

PHONE NO.: 415 896 1094

Program protects old Web sites from oblivion

ome years ago, Francis Fukuyama wrote a quirky and fascinating essay called "The End of History," in which he speculated that liberal democracy might be what he called the "end point of mankind's ideological evolution." Fukuvama's notion is more than a little debatable in the political realm, but you can sketch a different end of history

COMPUTERS



Paul Gilster

when you consider our increasing reliance on digital materials. What if we put everything online, from our retail catalogs to our archives, and the hyperlinks fail?

It's a problem that Web users run into every day. Working on a research project, I recently compiled dozens of articles, many of them only available in online form, for my bibliography. Six weeks after finishing the document. I went back to doublecheck my sources, only to find that three of them were no longer accessible because their links no longer worked. Where did they go, and how can I cite them in a bibliography if they're going to disappear?

I'm sure you've had a similar experience. You find a hyperlink to a page that seems ideal for your purposes. But instead of loading the page, your browser displays an error message telling you that the document cannot be found. And here's a statistic that may give you a start: The average Web page has a lifetime of approximately 44 days. What to do?

One solution is to use Alexa, a program that taps an online archive of Web pages, including those that have changed address or been removed entirely by their owners. Using Alexa is like having a library of back issues of magazines and newspapers, only for Web pages instead of print. It's a kind of snapshot of the Internet at various points in its history. The free



Alexa is a software program that keeps an archive of Web pages. It's a free program that runs as a toolbar on your desktop.

program runs as a toolbar on your desktop and launches when you open your browser.

The database Alexa consults contained, as of late 1997, over eight terabytes of information; considering that the Web is doubling every six months, it should be twice that now. To give you a sense of scale, one terabyte is a million megabytes. A typical public library contains three terabytes of information, while the entire Library of Congress, if reduced to pure text, houses 20. The current Web takes up about five terabytes.

I use the term current Web because what Alexa's parent company does is to make a copy of the Internet every 30 to 60 days. The company, Alexa Internet, is based in San Francisco, and is the brainchild of Brewster Kahle, inventor of the Wide Area Information Servers system (WAIS) that was one of the earliest Internet search tools. Kahle now provides Alexa to end users and operates the database that feeds it information, a huge project called The Internet Archive

(www.archive.org).

Kahle is not a believer in history having an end, which is why he insists that we find ways to document and preserve the mutable phenomenon of cyberspace publishing. Already, historian David Allison of the Smithsonian Institution has used materials from the archive to create an exhibit of presidential election Web sites, material that might otherwise pass into oblivion the day after the votes are counted. Think of the 1960 election without our access to the presidential debates between Nixon and Kennedy and you begin to see the relevance of saving such information.

And it works for everyday Web work as well. Alexa will search for pages that have been removed from the Web and display them for you. It's not perfect, for the Web is always growing and the archive can never be complete, but if Alexa can find an expired page in its archive, you can still recover and use it.

Of course, issues of privacy come immediately to mind. What happens if someone creates a Web page with personal informa tion that he or she later wants to remove from circulation? The immediate answer is to make it possible for authors to exclude their material from the archive. In the long run, numerous questions involving the nature of online publishing and copyright must be resolved. By building this archive now, Kahle's compa ny in some ways forces the issue, and it's one that needs fast resolution considering the impermanence of online data

But Alexa does more than dig up old Web pages. It also create "Where to Go Next" suggestions. When your browser goes to a particular Web page, Alexa records the visit and the path through related sites, all on an anonymous basis. The software analyzes pages and sees which other pages have links to them. It also lets users offer their own suggestions about similar page:

Teachers tell me they're seeing more and more students relying on the Internet for their research; in many cases, the challenge becomes to convince the kids that there are material: in brick-and-mortar libraries traditional print materials that should be examined before jumping to conclusions about any subject. If this trend continues, will a missing hyperlink mean that critical information can be erased in Orwellian fash ion, manipulated by business or government to control an out-

Now there's an "end to history" that's positively Kafkaesque in its implications, but Alexa is : first-generation tool that points to a possible solution. The program provides background infor mation about each site and quick links to both the online Encyclopedia Britannica and Merriam-Webster's Dictionary. You'll need a 486 or Pentium processor running Windows 95 and 3 MB of free disk space to run it. A Mac version is in the works. For more information and a free download, go to www.alexa.com.

> Paul Gilster may be rouche at allstermindspring.com



Mercury Center

San Jose Mercury News

| Home | Site Index | Search | Feedback | Help | Customer Service |

Sections

News

Business & Stocks

Technology

Sports

Opinion

Living & Comics

Weather

Classifieds & Services

Jobs: Talent Scout

Homes: HomeHunter

Cars: CarHunter

Entertainment: Just Go

Yellow Pages

Mercury News Classifieds

Archives: NewsLibrary

News agent: NewsHound

Related Features

Business Home

Business Today

Tech Wire

Mercury News Business

Apple Watch

Asia Tech Update

Breaking News

Computing

Getting Ahead

GMSV

HomeHunter

Microsoft Watch

Money Tree

Silicon Valley 150

Mortgage Watch

Motley Fool

Stocks

Talent Scout

Greg Carpluk

Dan Gillmor

Adam Lashinsky

Business & Stocks

Posted at 8:15 p.m. PDT Sunday, May 31, 1998

Netscape to boost site features

'Smart' searching for the Net

By Jodi Mardesich

Mercury News Staff Writer

Netscape Communications Corp. will announce today three new services that make it easier to find things on the Web, make the browser into a kind of living desktop and simplify the process of upgrading to new software versions.

The changes -- for users of Netscape's browser on the company's Web site -- are part of the browser pioneer's new strategy to turn its traffic-intensive site into a lucrative "portal" or Internet launching point. Netscape has been overhauling its business as competition with Microsoft Corp., Yahoo Inc. and Excite Inc. intensifies.

The new services on Netscape's Netcenter Web site include:

"Smart browsing," a method of quickly finding sites without knowing cryptic Web addresses or URLs. By typing "Ford" into the space you normally would key in the traditional URL, you'd go to Ford's Web site. A "What's Related" button will show users other suggested destinations.

Personalized home pages. Netscape will launch My Netscape, "a desktop on the Internet," said Mike Homer, Netscape's executive vice president and general manager. The desktop, which can be arranged by consumers, can include stock quotes, news and small "weblets," or mini-applications. In its example, Netscape showed a small calculator running on the Web desktop. "It will grow to include Web-based applications," Homer said.

Smart Update. Netscape will send users e-mail notification when new versions of their applications are available. Homer said that by clicking on a button in the e-mail, users can update their software.

The new services will be live on Netcenter by the end of July.

As it adds synergy between the browser and Netcenter, Netscape

Adam Lashinsky
Chris Nolan
Cheryl Shavers

Contact Us

About this page

As it adds synergy between the browser and Netcenter, Netscape risks alienating its partners, which also are competitors, said Barry Parr, director, consumer Internet for International Data Corp. `The risk for them is that they wind up doing something that's driven a lot more by deals than it is by what their customers want." Parr said.

Homer countered, saying that users often don't know what's the difference between the browser and the site.

By adding features to the browser that are tied to Netcenter, Netscape appears to be doing what it is accusing rival Microsoft Corp. of doing -- taking advantage of its position of strength in one area to gain prominence in another. It's also, in some cases, edging out the little guy.

Netscape was in discussions with start-up Centraal Corp. about using Centraal's Real Name System, another way to do away with URLs and simplify searches. But Homer said Netscape opted to go its own way.

Centraal CEO Keith Teare said in March he hoped to get browser makers to add support for the Real Name System to their browsers. But Friday, he said Netscape's move was good news for his company. "It's very good from our point of view," Teare said. "It focuses attention on something we're trying to achieve."

But while one start-up lost out, another got a potentially lucrative deal.

Netscape is adding the smart browsing feature by licensing software from Alexa Internet, a San Francisco start-up that has archived much of the Web over several years and has mined the data to spot usage trends and provide smart links. By watching where previous Web users have gone from a certain site, Alexa has marked paths of previous site visitors that it offers as suggestions to users. These suggestions will be listed when users click on a ``What's Related" button.

Alexa's software has been downloadable from its Web site, but through this new relationship, it will be integrated into Netscape's Communicator browser.

Brewster Kahle, president of Alexa Internet, said smaller companies constantly are looking for distribution channels, such as a browser or a portal site.

"As much as I hate the term portal, making alliances with portals is key to our business," Kahle said. "We're looking forward to doing deals with all the other portals."

Last month, Netscape launched the new strategy, in the midst of rising stock prices of search engines and Web guides that had repositioned themselves as portals. The first service Netscape added was free e-mail, through a partnership with USA.net. Earlier this month, Netscape announced that Excite would supply the engine behind Netscape-branded search.

Netscape claims 5 million members of Netcenter after eight months of operation.

Microsoft has yet to launch a competing portal site. The Start page is rumored to launch sometime before the end of the year. Microsoft vice president Jeff Raikes has said that Microsoft has no plans to turn Microsoft.com into a portal.

A Back to top

San Jose Mercury News

| Home | Site Index | Search | Feedback | Help | Customer Service |

Make the business connection

with the Bay Area's best Yallow Pages



©1997 - 1998 Mercury Center. The information you receive online from Mercury Center is protected by the copyright laws of the United States. The copyright laws prohibit any copying, redistributing, retransmitting, or repurposing of any copyright-protected material.



Current Issue

Seidman's Online Insider - June 21, 1998

Vol. 5. Issue 21

Copyright (C) 1998 Robert Seidman. All rights reserved. May be reproduced in any medium for noncommercial purposes as long as attribution is given.

IN THIS ISSUE...

- Author's Note
- E-Commerce Report Update
- Microsoft's Start
- Disney Buys a Piece of Infoseek
- Netscape's NetCenter
- More Fun With Numbers
- Final Note
- Stock Watch
- Subscription Info



Author's Note

This is an "off-week" edition of the newsletter. A lot happened last week so I'll try to get more in-depth coverage in the next "regular" edition. Unfortunately, due to some scheduling conflicts there will be no newsletter next week. Also, as always, the off-week editions lack the stellar services of my copy-editor, Bernadette Barone.

[back to top]

E-Commerce Report Update

Pleased. That's the word I'd use to describe how I feel about our early sales results of Good Reports' first report, "In Search of E-Commerce". I'm really pleased with how the report is selling and with the feedback we're getting. Mark Hurst and I are certainly learning a lot. But, while we are pleased, we'd much rather be ecstatic (though we're definitely happy that we're "pleased" and not "bummed out"!).

We think the report is useful to a broad range of potential buyers, but I think its probably most useful to those directly or indirectly responsible for designing E-Commerce sites. If that's you, please be sure to check

out our web site at: < http://www.goodreports.com for more info. Readers of the newsletter save \$100 over the retail price by using the discount code: Seidman.

[back to top]

Microsoft's Start

Microsoft announced a public beta (which now seems to have gone live) of their home.microsoft.com page that is dubbed "Internet Start". This led some of the press to believe that what we're seeing here is the same thing we'll see when Microsoft launches its "portal" service that is code-named "start". In truth, this beta is just an extension of what was already available at home.microsoft.com. The update was simply to improve the site's performance -- making it roughly 50 percent faster, according to Microsoft Vice President Laura Jennings.

I spoke with both Jennings and product manager Ed Graczyk about the update. While what you see shouldn't be construed as Microsoft's ultimate portal site, I didn't get the feeling that the site would change much in terms of design after speaking to Graczyk. Graczyk and Jennings both said that there will be a series of changes to the site between now and the end of the year. None of the changes will be very drastic, but by the end of the year the combined changes will make for a very different site. Jennings said that a redesign would be a part of what happens between now and the end of the year. Jennings seemed more critically outspoken about some of the site's design elements than even I am.

Changes you can expect to see between now and the end of the year are the addition of a Microsoft-branded search engine (via Inktomi technology), more pointing to Microsoft content (Investor, MSNBC, Expedia, Carpoint, etc) as well as the addition of channels. Jennings also said they would be adding features that would allow HotMail users going to "Start" to see whether they had any new mail waiting.

There will be a series of iterative changes between now and the end of the year with www.msn.com and home.microsoft.com ultimately offering the exact

same page. MSN "Premier" (subscription) members will get access to additional content (like Slate at no extra cost and the full-blown Investor site at a discount). The HotMail home page will maintain its own separate look and feel for the foreseeable future, though they will use HotMail to drive traffic to other Microsoft content including the Start page. Overtime Jennings said she'd like to see HotMail users gravitate towards accessing their HotMail accounts via the Start page, but for the time being the HotMail home page would not be the "Start" page. I kind of question this move because the truth is, people coming to the HotMail home page to sign-up for or access HotMail accounts will still have to do the same thing (click the icon to sign-up or enter their user ID and password to log in). Since it isn't any more difficult to sign-up or access, with all the traffic to the HotMail site, it's a sure fire way to get the additional content in front of a LOT of people. But for now, Microsoft

seems either worried about alienating HotMail users or concerned over branding. Stay tuned...

An interesting aside -- Jennings said that the site would ultimately have a "buddy list" feature but rather than using presence management technology acquired when Microsoft bought a company called Flash, earlier this year, Microsoft will be developing its own technology for its buddy lists.

[back to top]

Disney Buys a Piece of Infoseek

On Thursday, <u>Walt Disney</u> Co. agreed to buy a 43% stake in Web search engine turned "portal" Infoseek. In return, <u>Infoseek</u> gets Disney's stake in Seattle-based web site operator (most notably <u>ESPN</u>'s SportZone web site) Starwave, \$70 million in cash and \$139 million for warrants that would give Disney the option to buy a controlling stake.

It's difficult to say who came out on top here -- it seems a pretty good deal for both. Disney gets a piece of Infoseek relatively inexpensively and, as a part of the deal, Infoseek agrees to buy \$165 million in ads from Disney (the ads will run on Disney's web site, its television and radio stations and at its theme parks). This expenditure will likely keep Infoseek from profit for a couple of extra years at least (analysts were predicting prior to this announcement that Infoseek was nearing profitablity).

The 43% stake in Infoseek, based on Thursday's stock price put the value at about \$465 million for Disney (this doesn't include the \$165 million Infoseek will pay Disney for promoting the site).

Disney took a 33% interest in Starwave last year for \$100 million. Last month, Disney said it would exercise its option to buy the rest of Starwave. As a stand-alone company, Starwave is valued by the analysts in the \$300-500 million range.

For Infoseek its as if it bought the rights to ESPN SportsZone, <u>ABCNEWS.COM</u> and Starwave's other ventures (though it appears that Infoseek does not have exclusive use of these products and that Starwave doesn't own perpetual rights to produce the products). Though I am a big CBS

Sportsline fan, I think ESPN is still the better web property and currently Sportsline USA has a market-cap (not fully-diluted) of around \$650 million. This isn't a fair comparison though since Disney could take its brands away from Starwave at some point.

For Disney its stake in Infoseek does come pretty cheaply, and the combination of Disney/Infoseek will certainly be good for both companies. Several people wrote that it seems as if Disney said to Infoseek: "you know how to do this better than we do. When we figure it out, we'll buy those warrants and regain control." I agree with the sentiment.

What I question is whether the InfoSeek/Mouse tandem can make up any

real

ground vs. AOL, Excite, Yahoo! and even Lycos. In the home market -- the one Disney excels in, Infoseek trails AOL, Yahoo!, Microsoft, Excite, GeoCities, Netscape and Lycos in MediaMetrix Top 15 Web Properties At Home list. InfoSeek doesn't fare much better in ranking in the At Work Top 15 Web Properties list, but it's reach is MUCH better (27% vs. 18.5%). And at least based on the MediaMetrix data, Lycos is way stronger than Infoseek in both markets. I also question how patient Disney will be if Infoseek hasn't moved up the charts much in 6 months to a year.

As of right now, it seems that major content brands don't have as much impact on online traffic as major ONLINE brands. You have to go to the 10th spot in Media Metrix Top 15 (in both the at home and at work categories) before you hit a true content company. Coming in at number 10 in both categories is Disney with a reach of 14.1 and 15% respectively -- WELL less than half the reach of AOL, Yahoo!, and Microsoft. I don't see this trend changing in the next 12 months.

[back to top]

Netscape's NetCenter

Netscape launched a public beta of its NetCenter site (that will ultimately become the home page for people visiting www.netscape.com) at:

< http://www.netscape.com/beta.html? >.

This site doesn't seem much different than Yahoo! or Excite, but is still WAY, WAY, WAY, WAY better than its current default home page. Especially

with all the frenzy over "Portals" (with NBC investing in CNET's Snap! and the Disney/Infoseek and the AT&T/AOL rumor heightening the frenzy)

will be a close eye on Netscape's implementation. According to MediaMetrix, Netscape is slipping a little bit (Netscape was the 3rd most accessed site in the home market in April and dropped to fourth in May and was the second most accessed site from the workplace in April, dropping to 3rd in May). Still, it is one of the most trafficked sites anywhere.

Personalization (My NetCenter) is not yet available in this version of the beta, but for now I give NetCenter a head-start over Microsoft's Start.

Netscape also officially announced version 4.05 of its Communicator software that among other things the main change for most end users will be the features making up what Netscape refers to as "Smart Browsing". The first component called "What's Related" offers Netscape browser users to get a drop down list of sites related to whatever page they're on. This service was developed in a partnership with Alexa Internet. The second component, Internet Keywords goes further than current browser features that for example will take you to Ford's web site if you type "ford" in the URL address bar. With Internet Keywords, the example Netscape uses is that you can now type "Ford Ranger" and go directly to Ford's page that's devoted to the Ranger line. As previously reported, this feature will first look at a database of about 10,000 names, then at

the Internic registry and if it can still find nothing, it will provide results from a standard search of the entire Internet (via Excite). The final element of Smart Browsing is a set of content filtering tools for librarians, parents, or network administrators.

[back to top]

More Fun With Numbers

TOP TEN WEB PROPERTIES - Here are the top 10 Web properties ranked by unique audience for the week ending June 13, 1998, as reported by NetRatings Inc. A property is defined as a consolidation of multiple domains and URLs associated with a property.

Property	Reach	% Page Views from Cache
1. Yahoo!	48.5%	33%
2. AOL.com*	36.17%	36%
 Netscape 	24.83%	35%
4. GeoCities	23.58%	29%
5. The Excite Network	23.41%	28%
6. MSN	23.39%	29%
7. Microsoft	20.97%	26%
8. Infoseek	14.82%	35%
9. Tripod	14.13%	30%
Angelfire	11.47%	39%

The interesting statistic here is how many pages are viewed from the cache (by hitting the "back arrow" for example, to load a previously loaded page). I'm not really surprised, especially with the search engines. You figure it often happens where you click on a link, decide it wasn't what you wanted and go back to the list of links. So it isn't really shocking to me that between one-in-four and more than one-in-three pages come from the cache, but if you figure the implications as they pertain to click-through rates on banner ads, things may even worse than they seem when it comes to click-through rates!

Some other interesting data from NetRatings:

QUICK LOOKS - USAGE STATISTICS Detailed Statistics on Web Usage Week Ending June 13, 1998

Statistics below represent average activity for a Web user.

Usage Category, Statistics	
Page Views Per Week	321
Time Spent Per Week	5: 22: 30
Number of sessions	9
Pages visited per surfing session	36
Time spent during session	35: 56
Duration of a page viewed	01: 00
Banners viewed	118.19
Banners clicked on	1.29

While interesting, the NetRatings sample seems skewed towards heavier users. The data is still interesting even if it is representing the more active user. Either way (active user or not), compared to TV, the Web is still way, way behind.

[back to top]

Final Note

Yes, I know some of you will be in withdrawal because there was so little mention of AOL in this issue. What with the AT&T rumor you probably figured I'd have written a few thousand words on it, but, nah.

So here's a little nugget (just a small one) to get you through until next time. AOL is conducting a closed-beta for a service it is calling My News. Basically this is a web-based service very similar to MyYahoo!, MyExcite and coming soon, MyNetCenter.

I've often chided AOL for not making more out of its "welcome" screen for the proprietary service. But AOL's My News may bridge the gap offering a one-click-away destination for a very personalized and customizable page. Further, especially if integrated with AOL's AOL e-mail via the web service (also in beta) it will offer AOL users their AOL away from AOL (get your AOL anywhere you can access the Web). Like AOL's Instant Messenger service, My News looks like it will also be available to those who aren't subscribers of the proprietary AOL service.

[back to top]

Stock Watch for the Week Ended June 19, 1998

You can find a full HTML version of the Stock Watch here.

[back to top]

Subscription Information

To subscribe to a text version of this newsletter, send e-mail to:

insider-text-on@seidman.infobeat.com

For an HTML version of the newsletter, send e-mail to:

insider-html-on@seidman.infobeat.com

To unsubscribe to either version, send e-mail to:

insider-off@seidman.infobeat.com

No subject line or body text is required for any of the above instructions. If your particular client requires something to be in the subject line or body of the message, it doesn't matter what text you

Rewparl Hews, VA

Cht - (Nt) 98,505 (8) 119,154

JUNE 29, 1998

Bacon's

BOOT CAMP HAMPTON ROADS

UPGRADE MANIA. I'm flabbergasted

vision viewer and online upgrade - the media covering it because of the Justice ing a big deal of it, and mainstream upgrade I can understand retailers mak price, people still lined up at midnight Wednesday to buy the Windows 98 minor launch and the insanely high Microsoft's own admission that this is a product, hostility toward the company Despite the obvious shortcomings of the couple of gee-whiz features like the teleit. Windows 98 is a patch. Except for a way Active Desktop bogs down the CPU appreciate the propnetary channels, the directories, but I know plenty who don't one person who wants to hit "back" or on. Yes, the Active Desktop. I don't know Explorer 4.01 and Active Desktop tacked Windows 95 with the (free) Internet nothing but three years of bug fixes to road to more patches - Windows 98 is Department controversy, but, let's face "forward" to get through hard drive



or how it just assumes we all have a constant Internet connection — everyone in Redmond, Wash, has a 11 line growing out of heir backyand, don't you?

Lunderstand that eventually we'll all

use '98. It's not just the irrational desire for the latest and greatest, but the new operating system dose. Theoretically—support the Universal Sepal Rus cable. Hopefully, all peripherals will move to

that standard in time, recalling those wacky Alari 8-bit and Commodore daisy-chaining days of yore Bul right now, I can count the number of USB peripherals in stores on one hand.

So what do you think? Did you pay almost \$100 for Windows 98 already, or will you soon? Tell me why at dhop per@dailypress.com, and I'll print some of your responses next week

TIP. A bug in Microsoft Word has given a wicked new twist to the term "drag and drop." Although Microsoft has given Windows many of the drag-and-drop conveniences that once were the hallmark of the Mac, they still have a few wrinkles to iron out in Redmond in Windows, for instance, you can print a file by dragging the file iron to the printer icon in Windows Explorer, or by right clicking the file iron and clicking Print. Careful if you try this in Word for Windows 95 or Word 7 x, though. Microsoft

has acknowledged a bug that can cause users to lose all unsaved data. Until wisers to lose all unsaved data. Until Microsoft releases a code fix for Word, the easiest way to avoid this problem is obe sure to save your work before printing by dragging icons, or don't print this way at all.

LIKE MINDS. There are many great sites on the Internet, but very few are publicized enough to be popular. A little-known site, Alexa (www.alexa.com) is a free navigation service that analyzes meent browsing patterns and recommends other sites you may be interested in. Alexa works with your browser, sitting in a toolbar on your desktop, and supplies serencipitous surfing suggestions.



Week of June 9 through 15, 1998

SITES
Top sites
Newspapers
Magazines
Radio/TV
Resources

ARTICLES
Contents
Digital Feed
Bylines
Take 2
Archive

INTERACT Search Update Feedback Info

SPECIAL JobLink Awards Directory Research

The World Wide Web Never Forgets

The Net's awesome memory raises troubling privacy issues.

Story by J.D. Lasica

From AJR, June 1998

GIGABYTES HAVE BEEN WRITTEN ABOUT

THE digital revolution, but little attention has been paid to one of its most potentially profound social changes: The Internet doesn't forget. Memories fade, but electronic archives are turning fleeting snapshots of our past lives into permanent records that may follow us forever.

And that has enormous consequences for us as communicators, journalists and citizens.

The common perception is that the Web is a fragile creature filled with dead links, "404 Not Found" error messages, hasty e-mails and other transient digital debris. Indeed, leading figures on the Net have bemoaned the wholesale loss of the Web's early years, such as many of the political sites devoted to the '96 election.

But efforts are underway to change all that. Brewster Kahle of San Francisco, inventor of several Internet search engines, is trying to collect, store and catalog the entire World Wide Web and all 33,000 Usenet newsgroups. Kahle's nonprofit Internet Archive and more recent Alexa company are out to become the modern equivalent of the Library of Alexandria: the repository of all the world's public digital information. To date he's copied and stored some 8 trillion bytes of words, images and sounds (compared to 20 trillion in the Library of Congress).

"If we don't organize the Internet, people will tune out all the noise and they'll settle for calling up 10 channels, and we'll just have television on

J.D. Lasica is the copy desk chief for San Erancisco Sidewalk, Microsoft's online city auide. For 20 years prior to that, he was a reporter and editor for three daily newspapers. id@well.com

From AJR, June 1998 the Net," he says. Kahle (who has cooperated with publishers to iron out copyright issues) and others seeking to organize and preserve the Net deserve high praise for making its riches more accessible. But we all need to raise our awareness of how such efforts are also shrinking the sphere of personal privacy.

Consider three areas:

Hiring: Applying for a new job? There's a fair chance your prospective employer will use a search engine to scout out your online writings, from prosaic travel pieces to hot-tempered postings to a political newsgroup. In a recent discussion on the online-news listsery, a mailing list of more than 1,000 news professionals, several employers--including an editor at the San Francisco Examiner--said they routinely scour the Net to gauge the habits and personalities of job candidates.

That drew an impassioned rebuke from Marie Coady, a freelance writer in Woburn, Massachusetts, who was unaware that her postings to the group had been cataloged for all the world to see. "When I typed my name into a search engine and found everything I've ever written online, it was a little like coming home and finding someone had gone through my personal belongings," she says. "I felt violated and helpless."

Like it or not, such online sleuthing is here to stay. Used judiciously, the Net's search capabilities offer a valuable tool for cutting through the spin of a resum and selective clips, ultimately providing a fuller picture of a job candidate's qualifications. But employers tread into unethical waters if they begin probing someone's political or religious beliefs, sexual orientation, attitudes toward unions or quirky personal hobbies. My fear is that even the most fair-minded managers will have their judgment colored.

Background checks: Until now, journalists have generally respected the private lives of ordinary citizens. Will the new culture of information saturation--where personal lives become public fodder--reshape our journalistic values? When we write about an interview subject, how deeply should we probe the foibles, mistakes and

indiscretions of a prominent attorney, pastor, civil servant or teacher?

And what of politicians—do we hold candidates for public office up to a more exacting standard of private conduct? Kahle muses, "It's likely that the president we elect 30 years from now already has a Web page up, posted from his college dorm, and future journalists and pundits will have a field day poring over his college-age musings." Will we be able to resist?

Digital footprints: Anyone who communicates on the Net, including journalists, should be aware that he or she may be leaving permanent digital footprints, available not only to potential employers but to neighbors, strangers, landlords, rivals, enemies, future lovers, descendents not yet born

This can be both blessing and curse. For many of us, it would be marvelous for our grandkids to summon up Grandpap's very first home page. For others, whose online forays may not be the stuff of posterity, a gentle forgetfulness would be far kinder.

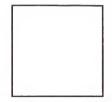
But that may no longer be possible. The digital attic has begun collecting and storing bits and pieces of our lives. There will be no yard sales, no chance to toss out the useless clutter. The Net has forgotten how to forget.

RETURN
Main menu
Top of page
Prev. page



® © 1998 AJR or NewsLink

Comments?



Andover.Net

AndoverNews
Animated Banner Maker
Cartoon of the Day
Dave Central
FreeCode
Internet Traffic Report
MediaBuilder
SlaughterHouse

Visit our Sister Site StreetTech.Com

Keyword Search

Run Search

Month 1998 April March February January

1997

December
November
October
September
August
July
June
May
April
March
February
January

1996
December
November
October
September
August
July
June

Backpointers

Alexa Version: 1 Show the world the links into your site!

Remember when having a "hit-counter" on your Web site was considered, like, really cool? Remember all those services that sprung up offering a free counter if you'd just put up with a small ad? All of a sudden everyone who came to your site could see how dang popular you were, even if most of those hits were made by you reloading your own page over and over again. Cool, huh?

But as most cool things go, having a counter on your page now marks you as a great big newbie dork. And that's not such a bad thing as far as we're concerned. If you were one of the lucky ones, your counter showed the world how popular you were. However, we'd best that most of y'all out there with counters never broke 1000. Besides, what did those counters ever tell you anyway? Not much beyond a useless nunber that cluttered up the page, right?

So counters are out. But now we've got something better, something that's a much better indicator of how dang cool you are. Something that you can't fake, can't doctor, or can't even influence a heck of a lot. A site statistic that's really cool and is sure (granted it's big enough) to impress your friends -- backpointers.

Backpointers are links back into your site from other Web pages. Generally, if you're a popular site, you've got lots of backpointers because people want to point their friends and readers to your site. Now we don't want to brag, but Cool Tool's got over 2200 backpointers to it...not too shabby and a

June May April

Platform

MacOS MacPPC Windows 3.x Windows 95/NT

Category

Audio
Browser Utilities
Browsers
Conferencing
Connectivity
Database Tools

Email
File Utilities
FTP
Games
Graphics
Internet Suite
Java
Misc.
Multimedia
Newsgroups
Programming
Push Media

Real Time Info
Security
Servers
Telnet
Utilities

Video
VRML
Web Authoring
Web Site Promotion Tools

Web Surfing

Tool's got over 2200 backpointers to it...not too shabby and a number we don't mind telling you about. And now you can tell your visitors how many backpointers your site's got just by using a simple button from Alexa.

Just pop some simple code into your homepage and you're set. Every month, Alexa will refresh your backpointer button with the new number of backpointers to your site. As your popularity grows, so will you backpointers, a fact so elegantly displayed on your site by the Alexa Backpointer button. User clicking on your button even get a list of the pointers to your site...as sure way to show 'em that you're not just whistlin' dixie.

So go check it out. It's fast, free, and no salesman will call. You're under no obligation to the nice folks at Alexa and you're free to remove the button at any time for a full refund of your null purchase price. What a deal! Better get hoppin!

ps. And please...put a link to Cool Tool on your site...we're countin' on you. Literally.

Home Page

http://www.backpointer.com/join.html

Previous Cool Tool

JOIN the Andover Update mailing list

Subscribe

Enter your email address, then click Subscribe



by Austin Bunn

WWWAC List wwwac.org Digital Landfill potatoland.org/landfill Alexa alexa.com

The Government White Paper on Domain Names Policy www.ntia.doc.gov/ ntiahome/domainname/ 6 5 98dns.htm

Agent Research & Evaluation Site www.agentresearch.com

Talk back! editor@villagevoice.com



What won't they take the funk out of next?



Machine Age

Taking in the Trash When historians finally get around to tackling the Net, the Net will likely tackle them. The source material is already so suffused with static--abandoned home pages, XXX spam, and countless messages that venture, "Testing . . . Are you there?"--that the human signal may be impossible to pick out from the noise. And the volume is only getting louder. The three-year-old WWWAC list (wwwac.org), a 3000-person e-mail congress of mostly New York designers and entrepreneurs, is reaching the tipping point with its archives on servers at Echo. Query the archives through e-mail and you can easily read the handful of initial posts ("Hello, there . . . the few, the proud" and "Hi. I've got the chips, who brought the dip?") from January 1995. But try to read May 1998's file and Echo's software can't deal with it, says list administrator Larry Aronson. "The file is just too enormous."

If we can save everything, then should we? Artist Mark Napier's idea is to decide what's junk and start dumping--not trash the files exactly, but make a public spectacle of them, a tea party of ephemera. Last week, Napier unveiled his virtual compost heap, called the "Digital Landfill" (potatoland.org/landfill), where users can deposit graphics, text, and animations into a roiling stack of castoffs. The site layers the donations on top of one another, so what you get is, not surprisingly, an absolute mess. But, as he notes, our ruins reveal as much about us as our monuments. "The landfill is not supposed to have value," he says. "It creates a view of the subconscious of the Web culture."

Some bits are a little more conscious than others. Last fall, Napier drew the ire of the toy company Mattel for his twisted online culture jam "The Distorted Barbie," where he digitally mutated the plastic bombshell (interport.net/napier/barbie). Napier added the

"cease and desist" letter he received from Mattel to the landfill. "I made the digital landfill so that I had a place to throw that letter," he admits. With the landfill, he wants to raise questions about the future of digital objects that don't decay. "In 20 years, will we be collecting digital antiques?" he asks.

The navigation tool Alexa (alexa.com) already is. Developed by the people behind the Internet Archive (archive.org)--the Library of Congress of the Net--Alexa runs below the browser and provides information about the Web page that you're looking at: who owns it, where most users go to from it, and, if the page is missing, what it used to look like. If you encounter a "404 File Not Found" on a site, Alexa searches through its database of 500,000 Web sites to fill the hole with an archival version. "As a navigation feature, it seems like, why use this? Why is this here?" says Alexa CEO and president Brewster Kahle. "But the 404 service has been very useful to a few people, like those who lose pages on their own servers if they crash."

Effectively, it's a form of public salvage: to Alexa, nothing is junk--just unpopular. Alexa blindly stores everything on the Net onto tapes, now containing over 10 terabytes of data--over half the amount in the Library of Congress, says Kahle. But its 100,000 active users are pruning the data through their collective paths, which other users can follow. One Alexa stat shows that just 1000 sites account for half of the traffic on the Web. "The Web made everyone into a publisher, and Alexa makes everyone into an editor," Kahle says.

Even with all the evident chaff that remains, Kahle still believes wholeheartedly in broad preservation. "We want a feel of what the whole Net looks like," he says. But he recognizes that Alexa's storage system works for now because most of the data online is text. As he says, "[storage] starts to become a real issue of volume when everybody has a camcorder pointed at their kid's cradle."

Federalist Papers 2.0

The question was like trying to sluice a tidal wave: where do you draw the line and declaim, "Government begins here"? At last week's all-star panel, "The Internet & Public

Policy: Who's in Control?" Harvard Law professor and panelist Lawrence Lessig nailed the recalcitrant spirit of Netizens. "We don't have a problem with governance in cyberspace," said the rhetorically polished Lessig. "We have a problem with governance."

The three participants in the discussion, sponsored by the New York New Media Association, would be the inaugural members of the Net's constitutional convention if one ever were convened: Lessig (who also serves as "special master" in the Microsoft antitrust case), Ira Magaziner (a presidential senior adviser and framer of the latest domain name policy), and Esther Dyson (venture capitalist and author of *Release 2.0*). They are possibly the only people capable of wrestling with the policy debate coherently--or, as they proved last week, at least able to properly frame the question.

The Net is exploding with ad hoc, private-industry governments, young colonies without state lines. With the rise of alternative ruling bodies to arbitrate the privacy andcensorware debates--"private architectures" as Lessig terms them--"to call the government 'it' " is a mistake, Dyson said. But smaller efforts at regulation, like the nonprofit data-control service TRUSTe (which Dyson helped instigate), face the challenge of "legitimacy," said Magaziner.

The government white paper on domain names policy, (www.ntia.doc.gov/ ntiahome/ domainname/ 6 5 98dns.htm), released on June 5 and debated by the panel, will face its own questions of legitimacy. The initiative calls for a nonprofit organization, consisting of "stakeholders" from all interested companies, to rule over the meting out of the top-level domains like ".com" and ".net," wresting control away from the corporation Network Solutions, which currently manages the system. While Lessig agrees with the new system in theory, he argued that the problem is that we don't know who the "stakeholders" are, and that in many debates (like that over encryption) we are all stakeholders.

And that's the issue that haunts us: as the Net comes closer to being regulated by specific bodies, who is choosing them? Just what constitutes citizenship, exactly, and when do we get to vote? The migration toward

overarching ruling groups--like the domain name nonprofit--signals a trend away from consensus and public debate, warned Lessig. "We're not democrats anymore, but that should force us to figure out why."

Signal and Noise

Agencies: David Remnick nabbed \$200,000 for Lenin's Tomb. Joe Klein got his own \$200K for Primary Colors. For those bucking to get published, the Agent Research & Evaluation site (www.agentresearch.com), created by Bill Martin and his wife, author Beverly Byrne, is intended to "empower authors" with an extensive database of about 850 literary agents, their deals, and the 10,000 authors they rep. Though essentially a promotional site for a \$30 yearly newsletter, AR&E still offers a telling list of the highest-powered agents behind the bestsellers and an "Agent Verification" function to let writers interrogate the database to ascertain whether their newest suitor is legit. . .

HackJob: First, John Markoff of the *Times* wrote a front-page story on hacker Kevin Mitnick. Next came the book deal for *Takedown*—a collaboration between Markoff and Mitnick's captor Tsutomu Shimomura. Now Miramax is rolling on the *Takedown* film, set to star Skeet Ulrich as Mitnick. But can Skeet type 90 words a minute and glower at the same time? . . .

Secret History: During the "quiet period" before an IPO, executives must keep all company business on the q.t. But now that ad network DoubleClick has become the Alley's first company to spike in the market (trading now at 35 points), president Kevin Ryan will go public with the perks and perils of opening the company up to investment at the MIT Enterprise Forum meeting on June 24, at the Chase Manhattan bank at 270 Park Avenue. Accountants, lawyers, and investment bankers will be on hand. Call 681-1112 for details.

Previous Machine Age features:

- June 9, 1998 (Burning Bridges)
- June 2, 1998 (Señor Stereotype)
- May 26, 1998 (Opening Windows)
- May 19, 1998 (Photographic Memory)
- May 12, 1998 (Cyber Activism, ATM







More connected.

Netscape updates Communicator

NEWS.COM FIRST

Paul Festa and Courtney Macavinta CNET NEWS.COM

Netscape Communications today officially announced the latest version of its Internet software suite, Communicator 4.5.

As previously reported by CNET NEWS.COM, Communicator 4.5 introduces both content filtering controls



as well as features that eliminate steps in the Web searching process. Other innovations in Version 4.5 are geared toward corporate users

who need to access their email from different computers.

"The Communicator 4.5 release reflects a general direction of ours in terms of integrating the product with the Internet," said Julie Herendeen, director of marketing client products at Netscape. "We continue to hear from our users that they want easier Web searching and high-performance messaging."

With the Version 4.5 release, the Communicator suite has shrunk by one application because the Collabra software for newsgroup management has been folded into the Messenger software for email management.

Today's announcement precedes a beta release early next month, and a fall shipment of the final product.

Communicator 4.5 has been on a parallel development track with Communicator 5.0, which will be Netscape's first Internet software suite based on the work of Mozilla.org.

In an attempt to stop steady hemorrhaging of its Navigator browser's market share to Microsoft's Internet Explorer browser, Netscape released its browser's source code to the public, and assigned Mozilla.org the task of guiding the development community's work with that

summary u.s. world business BOX YOUR TOWN science bealth&living travel son sports mr.showblz dispatches abcnews shows **▶** gallery weather - local search

HighTech
Business
Headlines
BBS Index
mail to ABCNEWS.com
send this page to a friend to toolbox

code. At that time, Netscape also made the product free of charge.

Developers working with Mozilla.org have been analyzing source code for 4.5 improvements as Netscape has passed them on, but the 4.5 release does not incorporate any Mozilla.org work, according to Netscape.

Netscape is categorizing features new to Communicator 4.5 under two main headings: Smart Browsing and Flexible Roaming Access.

Smart Browsing itself comprises three features. The first of these, called "What's Related," provides visitors to many Web sites with a drop-down box containing an automatically generated list of recommended related sites. Developed in a partnership with Alexa Internet, the feature relies on the servers of Netscape's Netcenter portal site for a database of links that are automatically updated through software that tracks and analyzes people's Web use.

The What's Related function does not discriminate on the basis of content, according to Smart Browsing program manager Ken Hickman, and will provide recommended links for controversial Web sites such as pornography and hate speech sites.

The second Smart Browsing feature, called "Internet Keywords," lets users type search keywords directly into the browser's URL address field.

Users of both Netscape's and Microsoft's current browsers will recognize this feature; those browsers already can read keywords typed into the browser and bring up a page of search results--from Netcenter in Netscape's case, and from Yahoo in Microsoft's.

But Communicator 4.5 goes beyond the current browsers' keyword capabilities by tapping into a database of trademarked and product names. In Netscape's example, typing "Ford Ranger" into the URL field of Navigator 4.5 would take the user directly to Ford Motor Company's page devoted to the Ranger, for example.

More ambiguous terms like "United"--which could refer to United Airlines, United Van Lines, and numerous other firms--eventually will lead to a list of possible matches once the databases are built out. But until that happens, terms like "United" will share the same destination that keywords typed into Navigator 4.0 browsers have: a search results page from Netcenter.

In another instance of Communicator's increasing integration with Netcenter, keywords that correspond to a Netcenter channel will lead the user to that channel.

The third element of Smart Browsing is called NetWatch, a set of content filtering tools for parents, librarians, or network administrators.

The two Net site screening features integrated into the browser are RSACi

Hetscape extends and SafeSurf Web site ratings systems. search contracts | Microsoft Internet ▶ story | Explorer already

supports both systems, which block access to sites containing adult language, violence, and nudity, for example, based on ratings applied to Web pages by content providers.

Netscape's support is a big boost for Net ratings systems, advocated by some because it gives the user more control but criticized by others who worry that the filters will wind up curtailing free speech.

Communicator 4.5's features for mobile, or "roaming," corporate Netizens include the ability for users to create profiles of their Internet software configurations and access those set-ups from any computer. Other roaming features fall primarily into the Messaging portion of Communicator.

These roaming corporate users are a prime target audience for Netcenter, which gets an unusually high amount of its traffic from people accessing it from work during business hours.

Previous versions of Communicator have supported a type of email following the protocol IMAP, or Internet Message Access Protocol. IMAP is more flexible

than the more common <u>POP</u>-based email. IMAP lets users use the server for tasks previously reserved for the client computer, including the storage and management of email.

New IMAP-related features of Communicator 4.5 will let users specify what attachments they want to download from the server, and will let them search more precisely for documents within email folders. Another feature new to 4.5 will let users share email folders on IMAP servers.

Version 4.5 also will increase the number of options for filtering incoming messages, and also will widen the range of management capabilities enabled during offline sessions.

Other new features of Communicator 4.5's are based on the Lightweight Directory Access Protocol, or <u>LDAP</u>. Like IMAP, LDAP was supported in previous versions of Communicator, but version 4.5 will go beyond basic support by expanding the capabilities of the Messenger address book.

In one instance, Communicator 4.5 will let users look up an employee's name in a corporate directory, and if several names come up, the client address book can then access the corporate directory for more identifying information such as job title or department.

Communicator 4.5 will also let users replicate LDAP directories for offline sessions, and will automate synchronization between server and client files when the user logs in again to the network.

Another modification to Version 4.5 is a revised calendar. With Communicator 4.5, the calendar interface will more closely resemble that of the email program. Hovering over calendar dates will produce explanatory notes, known as "tooltips," summarizing information such as the time and date of the meeting. Version 4.5 also lets users drag and drop meetings from one time to another, and it notifies users automatically of conflicts as they are scheduled.

LOCATE SOURCES OF POLLUTION IN YOUR COMMUNITY

Netscape to update Communicator

Join now FREE!

MENU
Front Door
The Net
Computing
Intranets
Business
Investor
CNET Radio
Perspectives
Newsmakers
Rumor Mill

NEWS OPTIONS
All the Headlines
Desktop News
News Alerts
Custom News
Advanced Search
Push

By <u>Paul Festa</u> and <u>Courtney Macavinta</u> Staff Writers, CNET NEWS.COM June 15, 1998, 1:55 p.m. PT

Netscape Communications will announce the latest version of its Communicator Internet software Wednesday, according to sources familiar with the release.

Communicator 4.5 will include <u>features</u> that Netscape has already announced, such as its "Smart Browsing" technology that links the Web browser more closely with its Netcenter portal site. Other browser enhancements include features that will make it easier for users to "roam," or share computers between home, work, and elsewhere through automatic personal configurations.

Netscape declined to comment on Wednesday's announcement.

Netscape's Smart Browsing initiative includes a number of ways to help users, particularly neophytes, find what they are looking for on the Web.

The first of these new search methods, called

"Internet Keywords," essentially lets users skip a step in the search process by typing keywords directly into the browser location bar rather than into a separate search

box. While it may seem a minor improvement, analysts praise the keyword function as a helpful tool for the vast market of those making their first steps onto the Net.

"Any time you eliminate a mode or a step in the search process, you have greatly simplified the process for the masses," said Vernon Keenan, analyst with Zona Research.

Internet Keywords also will help Netscape point browser users toward its Netcenter portal site. When a user types in a keyword that is very

Latest Headlines display on desktop

The Net California mulls privacy bill

Hotmail beats spammers in court

Crypto compromise coming?

Computing PC industry in Big Apple

Samsung announces
Alpha subsidiary

Sony continues portable push

Xerox takes on HP in printers

PC makers target the dumb terminal

Intranets Microsoft shows off Office 2000

Compaq moves into consulting

FCC: Telcos to kill Y2K bug in year

Compaq to rewire network unit

Millennium bug threatens ships

Business Greenspan: Let monopolies be

AOL up after AT&T report

IBM looking to sell printer unit

SPONSORED LINK Free Video!

RESOURCES
Subscribe
Member Services
Contact Us
Help

ABOUT CNET Introduction Company Profile Press Releases Investor Relations Company Contacts Job Openings Permissions
How to Advertise
Awards
Conferences

CNET SERVICES
CNET.COM
COMPUTERS.COM
BUILDER.COM
GAMECENTER.COM
DOWNLOAD.COM
SHAREWARE.COM
ACTIVEX.COM
SEARCH.COM
SHOPPER.COM
CAREER.CENTER
SNAP!ONLINE

When a user types in a keyword that is very broad in scope, such as "cars," the browser will go to Netcenter's channel on that topic.

Another Smart Browsing function featured in Communicator 4.5 is button called "What's Related" that functions something like an automatically generated list of recommended related links. Netscape has developed this feature in conjunction with <u>Alexa Internet</u>, which gathers the "What's Related" links for individual Web pages.

A third Smart Browsing feature included in Communicator 4.5 is NetWatch, a set of tools to filter out online sites based on a user's settings.

The two Net site screening features integrated into the browser are <u>RSACi</u> and <u>SafeSurf</u> Web site ratings systems. <u>Microsoft</u> Internet Explorer already supports both systems, which block access to sites containing adult language, violence, and nudity, for example, based on ratings applied to Web pages by content providers.

Netscape's support is a <u>big boost</u> for Net ratings systems, which have been slow to catch on with Web sites and users because of criticism from free-speech advocates.

In addition to the Smart Browsing features targeted at newer Internet users, Communicator 4.5 also will include improvements for business customers and for those who toggle back and forth between home and work computers. These types of users are a main focus of the company's Netcenter portal site.

One of the business improvements includes beefed up support for Lightweight Directory Access Protocol (<u>LDAP</u>). Previous versions of Communicator have supported LDAP, but the implementation in version 4.5 will be tied to the client address book.

This will let users look up an employee's name in a corporate directory, for example, and if several names come up, the client address book can then access the corporate directory for more information such as job title or department.

In addition to corporations with extensive intranets, Internet service providers also could provide these kinds of address book and directory services to users with Communicator 4.5, but comparatively few ISPs currently run

printer unit

Gates: Suit won't disrupt business

Digital off hook for RSIs

Arrow to miss expectations

Tech recovery pushes markets

Miss a day? All the Headlines



LDAP directories.

Communicator 4.5 also will feature improved support for Internet Message Access Protocol (IMAP). IMAP is an email protocol that lets users do more than they can with standard POP-based email.

The protocol allows the server to be used for tasks previously reserved for the user's computer, including the storage and management of email. IMAP also lets users share folders on the server.

Analysts praised the direction of the new browser for both the improvements aimed at neophytes and those aimed at corporate users.

"Netscape is aligning the browser more and more with Netcenter," said Paul Hagen of Forrester Research. Noting that Internet companies such as Microsoft and America Online are using

their browsers in similar ways, Hagen said, "I find it sort of fascinating that there's a piece of software that aligns with a media property."

Current versions of Communicator only provide links to Netcenter. Version 4.5 will integrate features of the portal with those of the browser to achieve "cross-pollination."

This integration, according to Hagen and others, could give Netscape an important boost in its battle with <u>Yahoo</u> and <u>Excite</u> to become the leading Internet portal site.

Related news stories

- · IBM leans toward IE
- IE 5 preview coming soon
- Netscape expands portal plans
- Yahoo ends ties to Netscape
- Netscape book details browser war
- Netscape's services, source code, site
- Netscape unveils email client code

Tech Talk...

Join the discussion!

Go to Front Door | The Net | Search Short takes | All the Headlines





TECHWEB

TechWeb

The Technology News Site

Search CMPnet:

1

Search Power Search

Technology
Stocks & Finance

Internet

Full Story Index Hardware Software Chips Communications International Apple Year 2000

Technology N

Technology News Netscape To Release Communicator 4.5 Beta

(06/17/98; 1:27 p.m. ET) By Malcolm Maclachlan, TechWeb

Just because browsers are free, the browser war isn't over. Netscape announced the latest version of Communicator Wednesday, with a number of new features for better searching and communications.

Communicator 4.5 will also try to send traffic to an area of Netscape's (<u>company profile</u>) business that is increasingly contributing to the bottom line: its Netcenter website.

The new client will go into beta early next month, with a full release expected by the fall. The most touted new features center around "smart browsing." Users may now enter search terms directly into the browser location bar. If the user types in a generic term such as *cars* or *computers*, Communicator brings up a link to the corresponding area of the Netcenter site. There, users will find news, consumer information, and services related to the search term.

The browser will also do an Internet key-words search to bring the user to the site he/she is looking for. For instance, typing in *White House* will bring up whitehouse.gov, the president's official site, rather than whitehouse.com, a pornography site that has capitalized on the small differences between domain names.

The key-words feature relies on a growing database of hundreds of thousands of sites. The idea is similar to that introduced in March by a company called Centraal with its Real Names system. Centraal signed a <u>deal</u> with AltaVista last month, whereby the search engine pulls up sites from Centraal's database. Unlike Netscape, Centraal charges \$50 for inclusion in its database.

Another "smart" feature is the new What's Related? button, which relies on a database of links from Alexa Internet. A search for the term *cars*, for instance, would bring up auto-maker sites and *Consumer Reports* magazine. As with the



CMPnet Audio
News
Features
Opinion
Video

Related Resources
Buy Books
Buy Software
Career Search
Company Profiles
Download Center
Encyclopedia
Events/Shows

Product Reviews
Web Development
E-mail Newsletters

3-D Site Map Link To Us Send Feedback Top Stories
Microsoft Says Voice
Recognition Not Ready

Compaq Still Pondering U.K. Strategy

Get A Graduate Degree Online

Microsoft And Compaq Back New Alpha Venture

Dataquest Expects 56 Million Win 98 Sales

Novell And Intel To Optimize NetWare Java



2 = See our Tech Encyclopedia for more info.



Free E-mail Member Login

Password

Login Sign Up Now



more
They'
to gai

Consumer Reports magazine. As with the key-words feature, companies are not paying to be included in the database.

"We're interested in making sure the feature works well for users," said Edith Gong, group product manager for the Communicator division. "Right now, there's no money being exchanged."

In an effort to appeal to home users, especially parents, Netscape has added NetWatch, a set of tools for filtering sites. This essentially gives parents the same power to filter sites that corporate IT managers already have with Netscape's Mission Control Console, Gong said. NetWatch uses the SafeSurf and RSACi Web-ratings systems.

"Users are much more mobile. They're needing to gain access to their messaging and their user environment from a number of different places." -- Julie Herendeen Netscape

Netscape has also added a number of new features to e-mail, which is now based on Internet Message Access Protocol, or IMAP. This lets users use boolean searches across multiple folders and address books, both private and shared company directories. It has added easier user-configured spam filtering. Users use a drag-and-drop interface to embed links in e-mail, add

colleagues to shared directories, and mail entire folders.

The 4.5 version will also have increased roaming access features for using the same e-mail, messaging, and user environment at work, home, or while on the road.

"Users are much more mobile," said Julie Herendeen, director of marketing for the client-products division at Netscape, in Mountain View, Calif. "They're needing to gain access to their messaging and their user environment from a number of different places."

Herendeen said Netscape's browser share has stabilized at about 60 percent since the company began giving away the browser in January, as measured by analysis companies such as Dataquest and International Data, as well as Netscape's own research. Although the company no longer gains revenue on the browser, it is the most important source of traffic to Netcenter. Netscape will roll out the latest version of its Internet gateway site, Netcenter 2.0, by the end of this month.

Maintaining a strong browser presence will become

increasingly important as Redmond, Wash.-based Microsoft (company profile) works to integrate Internet Explorer with the Windows 98 operating system as part of its strategy to drive its own gateway site, Start.

Communicator 4.5 does not utilize development from the free source-code community. In the 5.0 version of Communicator, due out next year, Netscape will include code and features contributed by partners in the

Related Stories:

Netscape An Easy Browser Winner

Netscape Widens Web Tools Gap

Search Archives

Search



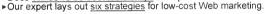
What all IT managers should know about Win 98 and NT 5.0.



Test your Small Biz IQ and you could win valuable software.

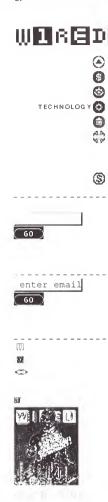
Today's Features index

- ▶ See how to make telecommuting really work for your business.
- Find the right removable-storage device for your enterprise.
- ▶ Does Windows 95 boot too slowly? Dr. Speed has the fix.





6/17/98 4:40 PN



× Netscape's 'Smart' Browser

WIRED MAG

HOTWIRED

April News Com 12 05pm 1 Jun 98 PDT

Netscape has unveiled its plan for "smarter" Web browsing, a strategy that the company will integrate into an update of its Internet "portal" , and future versions of its site. Netscape Navigator browser. The new features

are intended to help users find information faster and easier, the company says.

Like America Online's keyword navigation system, a new Internet Keywords feature lets a user type a single word into the browser's location bar (where Web addresses are normally entered). If a user entered "coke," for example, Navigator would assume the user is after the Coca-Cola Web site.

If the word were more generic in nature, such as "cars." the browser would deliver the corresponding subject category from the co-branded Excite Web directory. If there is no appropriate site or topic to be associated with the keywords, the word will be used as the keyword in a standard Web search.

A second, "What's Related" feature will provide a pull-down menu in Navigator's location bar. The menu will display a list of Web sites related by topic to the site currently being browsed. The feature comes out of a new relationship between service and Netscape, with Alexa's existing database being tapped to return the list of related sites. Alexa's database is designed to point surfers to information about companies, services, and products most closely related to the subject of the browsed site.

A third feature is meant to help parents keep tabs on Web content seen by their children. Similar to current third-party, Net-monitoring software, Navigator's new NetWatch feature offers parental control over Web content that can be viewed with Navigator. Using two -compliant rating systems, RSACi and SafeSurf, the browser can be set up to filter out sites with adult language, violence, and nudity, Netscape says.

The new features will first appear as features of , due at the end of June. They will appear in a more integrated update of the company's Communicator client software. scheduled for release before the end of July.

Related Wired Links:











MICROTIMES

| Home | Overview | About Micro Times | Current Issue | Past Issues | Family and Friends | Great Mall of Micro Times | Quotation Netline | Netsurf | Resources | Publishing Schedule |

By Kevin Savetz

Alexa, I'm Glad I Met Ya...

A Web Browser Add-On That Makes Surfing Sweeter

I'm not a big fan of software add-ons. Most browser add-ons, plug-ins and other doodads manage to underwhelm me with their utility while nibbling away at the stability of my computer system. In my book, a lot of those gadgets just aren't worth the trouble.

I've made an exception, though, for a program called Alexa--an add-on that makes surfing the Web faster, easier, and more informative.

After you download and install Alexa, you'll find a toolbar alongside your Web browser's window. When you visit a site, Alexa goes to work, displaying relevant information in its toolbar. The toolbar provides two primary kinds of information-about the site, and about other sites on the same topic.

When you visit a Web site, Alexa will tell you who owns the site and about its popularity. (CompuServe's site is in the "Top 10,000" according to Alexa, Yahoo is in the "Top 10," and little Podunk sites like mine and yours are humanely labelled "Moderate traffic.") Clicking on the arrow icon next to these stats reveals more information, including the number of links to the site from elsewhere, the number of pages that comprise the site, its speed and how often it is updated.

Just to the left on the toolbar is the feature that makes Alexa truly useful: The related links index. Here, a pop-up menu reveals a list of other sites on topics similar to the current one. For example, while visiting the clip art warehouse ArtToday (www.arttoday.com), the program recommended a desktop publishing site, a font archive and other clip art sites. Alexa creates this list with a combination of recommendations (the "add a link to this list" command allows you to suggest a site) and by watching the surfing patterns of its users. As a result, Alexa's list of related links usually contains a few questionable choices. (When I'm at the Maytag Appliances Web site, the recommendations of other appliance manufacturers' sites

web site, the recommendations of other appliance manufacturers sites make perfect sense. But I am at a loss to explain why MapQuest, a mapping tool, is recommended as well.)

Despite these occasional eccentricities, once you've found one site that's what you want--or almost what you're looking for--the related links index makes it easy to find others. It provides the convenience of Excite's "more like this" function, without making you trundle off to a search engine to do it.

Where does that usage pattern data come from? It comes from Alexa users like you. The program works by watching where you go on the Web, and in what order you visit sites. This information is reported to

Whenyouvisite site, Alexa goes to work, displaying relevant information indistrocibat. The toother provides two primary tinds of information—about other site, and about other sites on the same took.

a central database. That information is completely anonymous, just the surfing pattern of another nameless Web surfer. So you don't have to be embarrassed if you're a regular, closeted, visitor to the Spice Girls Web page.

Alexa can bring pages back from the dead, sort of. A major feature is its ability to access an archive when a page that you want to access is unavailable. When you happen across that all-too-common "404: file not found" message, you can tap the toolbar's Archive button to try to retrieve a stored copy of that page from Alexa's 8-terabyte archive (some 500,000 Web sites). It's a great feature, but don't bother pressing that Archive button unless you really want that information. You may have to wait several minutes while the server loads the page from tape. (You can keep surfing in the meantime--Alexa will inform you when the missing page is available from the archive.)

Back in Alexa's toolbar, you'll also find quick access to an online dictionary and encyclopedia. Oh, and you'll notice a postage-stamp-sized advertisement there as well. (Hey, it's a free program. Learn to live with it.)

Alexa won't force you through the trouble of upgrading every time a better version comes along. Its "auto update" capability means that enhancements will be installed without taking your time or attention. Remind me again why all programs don't have this capability?

For PCs, Alexa requires a 486 or Pentium family processor running Windows 95 or NT. It also requires Netscape Navigator or Microsoft Internet Explorer 3.0 or later--other browsers, such as Opera, won't work with it. On the Mac side, Alexa is still being alpha tested--and is prone to occasional crashes, as alpha versions are wont to be. It requires a PowerPC running MacOS 7.5 or later. You can get more information about Alexa or download the program from www.alexa.com.

Copyright © 1998 by Kevin M. Savetz. All rights reserved.

| Home | Overview | About MicroTimes | Current Issue | Past Issues | Family and Friends | Great Mall of MicroTimes | Quotation Netline | Netsurf | Resources | Publishing Schedule |

... THE LATEST STATISTICS

AVAILABLE REVEAL THAT THE SITE

GENERATED 1.829 F-MAIL

REQUESTS IN MARCH ALONE. THIS

WAS A RECORD FOR APICS ...



RETROSPECTIVE REDUX

By Kenneth S. Moser, CNA, CNSA

This month marks the second anniversary of the APICS Web site—actually the site has been operational for a little more than two years, but nobody except newlyweds telebrate half-month anniversaries. As in years past, this seems like a good time to sit back and review the mail.

Last year at this time, events had just forced APICS to move its entire site to a new service provider, UUNET, where it lives today. At that time, visitors could review the entire site index in about four screens, and the site consisted of less than 300 static Web pages. As a result, it took only two people, working part time, to maintain the site, and I actually knew what each and every page said. On a big

month, the site generated little more than 800 e-mail messages, and the biggest complaint was that some areas of the site required visitors to complete a registration screen and log in. Finally, until APICS moved to its new Internet provider, the society never knew how many people were visiting the Web site.

Today, the site hosts over 800 Web pages, three database query services, a document download area, gateways to several other services such as the e-

mail discussion lists, and a number of automated scripts. Registration and login are no longer required. On the other hand, the site index has grown to several pages in length, and the site now requires significant care and feeding from well over a dozen assorted staff. To say the least, site growth has been phenomenal.

In fact, as I'm writing this column, the latest statistics available reveal that the site generated 1,829 e-mail requests in March alone. This was a record for APICS but, with a monthly average of 1,700 and 1,500 requests for the previous three and six months respectively, it does not appear to be unusual.

Better yet, UUNET is providing APICS with very detailed statistics on site traffic. For example, in March 1998, the site logged 389,632 hits over 25,108 sessions lasting an average of 11 minutes each. Based on individual page hits, we know that certification is the most popular topic, followed closely by the online catalog and calendar.

Best of all, based on the e-mail, it looks as though the site is serving most users well. The main issues seem to have shifted from technical features to content. Furthermore, no single issue dominates. This is as it should be.

Meanwhile, what have we learned about APICS Web site visitors? Some might recall that APICS used to send out visi-

tor surveys. This is no longer necessary because much of the information APICS needed is now available from site statistics.

For example, while the single favorite Internet Service Provider is America Online, many site visitors come through corporate gateways. In all, 65 percent access APICS from .com domains, 26 percent from .net domains, and six percent from .edu domains. Most of those accessing the Web site live in the United States, Ganada, South Korea, the United Kingdom and Japan. Yahoo! and Excite appear to be the most popular search engines, or at least that's how most users are finding APICS, and the favorite keyword is apics. On the whole, users tend to visit the site on weekdays from 9 a.m. to 9 p.m. Eastern Standard Time (USA). Last but not least, most users run

Windows 95, and Microsoft Explorer is beginning to edge out Netscape as the browser of choice — but only by a hair

In addition, more users each month are placing orders with APICS through the Web. While this is great for all the obvious reasons, I want everyone to know that I really appreciate their trust. APICS has taken measures and continues to explore new options available to secure its Web site. APICS also tries very hard to respect users' privacy and

does not publish e-mail addresses or even track individual visits. All of the statistics I quoted above, for example, are based solely on aggregate information.

As I write this, APICS is working to bring a fantastic new look to the site — its first major facclift. In fact, if all goes according to plan, the new look should be in place shortly after publication of this issue of the magazine. To be one of the first to see this new look, I recommend that you subscribe to the WhatsNew service. To do this, send an e-mail message containing the comment, JOIN WILATSNEW, on a line by itself with no other text and no signature block at admin@lists.apics.org. Users also can join the list by visiting the APICS Web site at http://www.apics.org/joinlists.htm.

- Meanwhile, following are a few "new" search engines:
- NetSearcher Powered by Lycos, this service is billed as The Search Engine for Internet Professionals. This is a real search index, not a subject directory, so users must take care to use specific queries. See http://netsearcher.com/
- Ask Jeeves This is a search engine for people who don't want to learn Boolean logic — instead, it lets users type questions in English. For example: "Where can I get info on chiropractors?" See http:// www.askieeves.com.

1980 11.

- Dogpile Dogpile is a meta search engine that sends the query off to Yahoo!, Lycos, Excite, and other popular search engines. The results page is rather nice for engines of this type. See http://www.dogpile.com.
- AlphaSearch Hosted by the Calvin Theological Seminary, this site bills itself as The Gateway to the Academic Web. Subject matter is organized by academic discipline and resource type, the latter including databases and journals as well as other typical resources. See http://www.calvin.edu/library/as/.
- Alexa Alexa is not only a search engine, but a small plug-in that allows users to download to work in tandem with the browser. In addition to searches and hints, Alexa provides real-time feedback on each site you visil, with easy access to site statistics and popularity ratings. After I have more time to play with it, I may feature this software in a future article. Meanwhile, if you try it out, please visit the site and place a vote for us. See http://www.alexa.com.

In closing, as you may know, I gave a presentation on search engines at APICS '97 and am due for a second pass at APICS '98. If you find an interesting search engine or have any interesting stories to tell concerning experiences with them, please e-mail them to me at k_moser@apics-hq.org.



TECH-watch New York, No

[khein@billcom.com] http://www.incentivemag.com

Frequently versatile

f you've been trying to follow all of the new frequent-flyer-type loyalty programs in the Net, you're probably pretty confused. One reward program awards users for reading an online ad, another for sending in UPC codes for off-line purchases.

another for making a purchase on the Web and yet another for reading ad-driven E-mails. While these are all worthy

and viable

27

programs, one company claims its product can be used not only for any of these programs, but also for employee monvation programs. This product is the MyPoints Universal Rewards Currency (www.mypoints.com).

Launched in December of last year,

TECHNOTE

HITS OR MISSES How many users are really looking at your Web site? At this point, there are no accurate means of measurement. Errors in the measuring of hits to a site, based on internet provider access, averaged as much as 25 percent, according to a recent study conducted by the University of Southern California. This means if you've tabulated 1,000 hits for the month, you could actually have had as many as 1,250 hits or as few as 750.

MyPoints is basically the online equivalent to the back-end of loyalty programs. It takes care of the collection and redemption process "We're the bank for them and an E-mail post office. This way companies don't have to put together a whole infrastructure to put together a points program or hire an incentive house to do it," says Craig Muller, president of Schaumburg, Ill.-based MotivationNet, creator of MyPoints

Companies that have taken advantage of the ease in which MyPoints can be worked into a program include Hanes, Spiegel and Alexa. "We're using MyPoints to bring traffic to the site by rewarding users for clicking on our banner," says Cindy Sutton, spokeswoman for One Hanes Place- http://www. onehanesplace.com. "Initially we ran our banners in a number of different places. Now we can narrow it down to the locations that are most effective."

Points can be redeemed for packages with Carnival Cruises, Marriott Hotels & Resorts or for tickets on virtually any airline Barnes and Noble. Olive Garden. Red Lobster, Marshall's and TJ Maxx have also just been announced as redemption options

> Muller admits that his company has "well-respected competitors in each online frequency program niche, however we are the only product that allows marketers to control their own program," he says. "If they want to give out 50 points for clicking on a banner, fine. Give them 100 points for buying their product, that's OK Or if they want to reward dealers globally for putting

WEB SITE OF THE MONTH aim your browser toward http://www.promotion-clinic.ppa.urg is there a doctor in the house for on the Web for that matter? If your promotion is prowing a fit the suckly-year of fourting boy on object his your propositions, need to had the right decaker for a speaking engagement, or are looking for a new premions distributor - then said ingelinic. The brying, Loxas-based Riomakousd Products Association International has created the Promation Chilic to satisfy the inforential vier properlimently programs Users can pest chick on Diagnoses for results a number of race studies realingly the details of successful cabigainns, Referrats, produtes a histing of preferent speakers and Herice Chile. lists a number of position distributors. Lither uptions include the Emergency Room, Addich. provides any keting medicine in the learn of program tips, and the Premining Chang Labrary which provides a country of records to both year haire about promotional penderly, and

orders in online, we can do that too "

According to Hutton, Hanes not only likes the program's flexibility, but also a few other things. "They have a lot of financial backing, state of the art tracking tools and they're blasting the MyPoints name out there, which should attract a lot of eveballs."

Circ - 98,947 Weekly

JUNE 1, 1998

Baconis

UPDATE Netscape Unveils An Array of New Features For Its Netcenter Hub Site

By Whit Andrews

T is TELLING that Netscape, in describing what a year ago would

have been called browser features, announced last week what it said are new features of its of getting plug-ins.

 A search-from-the-toolbar option that harks back to an initial appear-



Many of the new features are browser-related, although Netscape is marketing them as components of Netcenter.

destination site, Netcenter [See "Netscape's Netcenter Faces Battle To Retain Its Status as a Top Site," March 16].

Not all the changes that are expected to be in Netcenter soon will be browser-driven. In particular, Netscape's new personalization technology—which will serve users of e-mail accounts, forum identities, and personal news pages—will be almost purely site-related.

But major changes described for Netcenter include:

- A browser component that will aid surfers in finding sites similar to any they are visiting, using technology and an index licensed from agent startup Alexa (and returning the resulting clickstream database to Alexa for its use).
- Λ component update service that will notify users of updates to Netscape software and components made to work with it, in an effort to streamline the process

ance in a beta build of Netscape 2.0 in late 1995. In this incarnation, the search box will seek keywords first in the InterNIC site database, then in a trademark database, then via enhanced Excite search, and then via a Net Search partner.

"I think one of the things we've found in user testing is that new users have trouble determining the difference between the location bar and a search box." said Jenuifer Bailey, vice president of marketing for Netcenter. The feature socks to crase the confusion by combining the two.

The simplified search and sites-like-this features will benefit Net-center by recommending its channels and features in which surfers might be interested. Bailey said. The features will be introduced in an incremental update of Navigator scheduled for this summer.

search: BROWSERS



THE SEARCH ENGINE UPDATE June 3, 1998 - Number 30

By Danny Sulliyan Editor, Search Engine Watch http://searchenginewatch.com/

About The Update

The Search Engine Update is a twice-monthly update of search engine news. It is available only to those people who have subscribed to Search Engine Watch, http://searchenginewatch.com/.

Please note that long URLs may break into two lines in some mail readers. Cut and paste, should this occur.

In This Issue

- + New Netscape Line-Up
- + Real Name Tops At AltaVista + Inktomi Picked By Yahoo, Snap
- + Three's Company: LookSmart and Snap Challenge Yahoo
- + AltaVista Launches New Look, Larger Size, More Languages
- + Excite Enhances Search Results + HotBot Redesigns, Expands Shopping
- + Yahoo Spruces Up
- + Meta Tag Usage Remains Low + AT&T Reaches Out To Search Engines
- + Web Marketing Search Engine Launched
- + Search Engine Notes
- + Search Engine Articles
- + Subscribing/Unsubscribing Info

General Notes

Hello Everyone--

Once again, it's been another busy month in the world of search engines. Covering all the latest news has put me behind on some site updates I'd planned for May, but I'll be moving quickly to do these over the next two weeks.

First on the list will be a revised "What People Search For" page, with a number of new links. The folks at MetaCrawler, http://www.metacrawler.com/, are now also providing me with top terms each month. There will be a new page within the site summarizing

Also, I am just about to post revised Search Engine EKG charts that show crawling patterns.

The easiest way to keep informed about these and other pages will be to check the site's What's New page, where I will post notice of revisions and new additions.

Search Engine Watch What's New

http://searchenginewatch.com/whatsnew.html

Search Engine News _____

New Netscape Line-Up

Netscape has unveiled the most sweeping changes to its important Net Search page since it established its landmark pay-for-placement deals on the page in April 1996.

Most significant is that Netscape is now running its own, branded search engine. Netscape Search, It's powered by Excite, in the same way that Excite provides results for the AOL NetFind search engine.

Netscape now occupies one of the coveted "Premier Partner" positions on the Net Search page. By default, the page will open to Netscape

Search 25 percent of the time.

Netscape's new partner Excite also receives a traffic share of 25 percent. The remainder of the page's traffic is rotated among veteran Net Search partners infoseek and Lycos, and two newcomers to the premier line-up, AltaVista and LookSmart. Previously, these two had shared pace within the now defunct Marquee Provider section.

Exact traffic shares for these remaining four were not disclosed, except that none are getting more than a 15 percent share.

Next year, Netscape Search will jump to receiving a 50 percent slice of the traffic, while Excite will stay at the same level and everyone else will share the remaining 25 percent.

Yahoo is the biggest absence. The company decided that it no longer needed a strong presence on the page, due to the considerable traffic it receives beyond Netscape. Reports are that only five to eight percent of Yahoo's traffic came from Netscape. Now it is listed below the fold, among numerous other search options.

Yahoo is also abandoning its partnership with Netscape to produce the Netscape Guide By Yahoo. The partnership began last year, but it made little sense for it to continue in the wake of Excite landing a \$70 million deal to program the Netscape web site.

Netscape decided in March to try and emulate the success of search-turned-portal sites such as Excite and Yahoo by building out content within its own site. It relabeled its site "Netscape Netcenter," then went on the hunt for someone to provide it with a branded search engine and build out content for web surfers.

Excite won the bid in May. Over the next two years, it will produce content for the site and power Netscape Search. In return, it receives the right to sell advertising and positioning partnerships within Netcenter, plus receives its own positioning on the Net Search page. New content should be appearing within the month, Excite says.

Eyebrows have been raised over the huge sum Excite paid, especially in light of the fact that Yahoo says it couldn't earn the money it had expected when it was producing content for Netscape.

Excite Executive Vice President Brett Bullington says his company can do better. He also points out that \$20 million would have been spent on positioning Excite within Netscape anyway, leaving only \$50 million that it needs to recover through ad and partnership sales. "Can we sell \$25 million this year and next year? I think we should be able to," Bullington said.

In fact, Excite just announced that it has signed agreements for \$21 million in advertising revenues in connection with the deal, putting it a third of the way toward covering the initial cost.

Concerns have also been raised over the fact that Netscape can walk away from Excite after the two years but keep all the content and programming tools Excite creates for it. The possible repercussions of such a handover are one of the reasons Yahoo declined the deal.

"The coup de grace for us was the turning over the technology and tools to Netscape, with no guarantee of renewal. Basically, you could create a competitor," said Jeff Mallett, Yahoo's chief operating officer.

Again, Excite says it can make the partnership work to its advantage. "We think in the end, we'll both learn how to win and exit with something out of it," Bullington said. In the strange land of the Internet, where "coopetition" rules, he may be right.

Meanwhile, on the heels of getting its search partnerships in order, Netscape has announced it plans to implement new "Smart Browsing" features by the end of July. These will likely incorporate Alexa site discovery technology into the browser and a word addressing system that sounds similar to Real Name, described below. However, the system will probably depend more on forwarding queries to search services. Expect more on this next month.

Yahoo ends ties to Netscape News.com, May 21, 1998

http://news.com/News/Item/0.4.22402.00.html

Yahoo's reasons for departing Netscape, with some interesting stats on the share of traffic it had received.

High-Stakes Deal For Excite, Netscape

Internet World, May 11, 1998

http://www.internetworld.com/print/current/news/19980511-stakes.html

General details on the partnership.

Why Infoseek Walked

Red Herring, May 12, 1998

http://www.herring.com/insider/1998/0512/seekwalks.html

Nice details on why Infoseek didn't think the Netscape deal was good for it to pursue, along with some stats on traffic the service has received from Netscape.

Excite Executives Cross Their Fingers That Payoff Will Come

Internet World, May 11, 1998

http://www.internetworld.com/print/current/news/19980511-fingers.html

Details on the amount Excite is paying to Netscape, along with guarantees that it gets some money back if expected traffic levels aren't reached.

http://search.internet.com/dual/http:// earchanginewatch.internet.com/subscribers/

Excite to power Netscape search

News.com, May 4, 1998 http://www.news.com/News/Item/0.4.21757.00.html

seneral details on the partnership.

Alexa: Searching Serendipity And More The Search Engine Report, Jan. 9, 1998 http://searchenginewatch.com/sereport/9801-alexa.html

More about Alexa, whose technology Netscape will be using soon.

Real Name Tops At AltaVista

AltaVista is now listing Real Name addresses at the top of its search results, a move which makes it much easier for web marketers to be found for their company names and which may help some users more easily find what they are looking for.

Real Name is an alternative web site addressing system from Centraal Corporation. The system allows people to reach web sites by entering words such as "Barnes & Noble" into their browser's address box, rather than having to enter a URL such as "http://www.barnesandnoble.com."

Until the AltaVista deal, the system's biggest problem was that it only worked for those with Real Name-capable browsers. That meant downloading special software, which is a hurdle in the way of widespread acceptance.

Centraal hopes to solve this problem by getting Microsoft and Netscape to build native Real Name support into their next browsers. But the AltaVista parmership, which began in May, could allow the system to fly regardless of this. That's because it solves a bigger problem of economically making search engine results more relevant for some searches.

Consider things from a web user's point of view. Imagine you want to go to Nike's web site. What's the address? Net savvy people will guess at "http://www.nike.com" and get there just fine. In fact, depending on your browser and the company's web server, you can get away with entering "nike.com" or even just "nike."

It's a bit more complicated with Barnes & Noble. Is it barnesandnoble.com, barnes-and-noble.com or barnes&noble.com? The last example isn't allowed under the current domain name system, but no doubt people try and feel frustrated when nothing loads.

Real Name suggests its system will be the solution to all this. However, net savvy and non-savvy people already have a solution they've been using for years, when they don't know an address. They turn to the search services, just as people turn to a phone book or directory assistance when they need a phone number.

That's the basic reason why search services have become so popular. Likewise, it is the reason many web marketers become so frustrated with them. The boss goes to a favorite search service, looks for the company by name, can't find it and goes on the warpath. Get it fixed, the boss demands.

Fixing it might not be easy, for some people. The answer may involve understanding meta tags, appropriate page titles and the need for decent copy at the company's graphic heavy web site.

Here's where Real Name provides a simple solution. It sweeps aside all those complications. Instead, you just pay your \$40 annual fee, and you'll come up tops for your name on AltaVista, guaranteed.

At this point, the old "selling listings" alarm bells are probably ringing with some people. Has AltaVista sold out? Shouldn't only the most relevant results come first? Hold your panic, and let's see the system in action.

Remember Nike? Do a search for "Nike" at AltaVista, and as happens with many major companies, no pages from the Nike site are top ranked. Before the Real Name partmership, both Nike and someone looking for the company were probably disappointed. Now, Nike's site gets top billing because the company has registered its name as a Real Name address.

Ideally, AltaVista and the other search engines should ensure that Nike and other important companies are top listed for their names, anyway. But to do so, they might have to manually configure or tweak the results for particular names.

That's not too much work when you are talking about ensuring that just Fortune 1000 companies are top listed for their own names. But what happens when smaller businesses want to ensure they come up first for their names? That's more time consuming.

The partnership with Centraal provides a solution. It gives people a way to get on top for their names in AltaVista without the service having to lift a finger. In fact, AltaVista even collects a share of the revenues.

Vor are search engine users harmed. AltaVista's own results are not altered one bit. The Real Name link is simply prefacing them, which makes perfect sense. Nike and other companies should come up first for a search on their own names. It's what both the company and most search engine users would expect.

Sound perfect? There are gray areas and a big fat loophole that allows the "selling listings" fears to return.

PA - D10

4158961094

DAILY NEWSPAPER

THE MORNING CALL Allentown, PA

Circ - (M) 133,735 (8) 186,557

JUNE 13, 1998



Baconis

3985 A_ Upgrade may help you make most of 'Fabulous Freebies'



Tim Blangger

The software site www.download.com keeps a list of what it calls its "50 Fabulous Freebies." and the list is both a good

gauge of what's free and popular among your fellow Net citizens.

But, if you peruse the list. you'll quickly discover that most of the software is believe written for computers using ei-

ther the Windows 95 or Wux dows NT operating system. In the top 20, five programs are available for

computers using the older Windows 3.1 or 3.11 operating systems, which still represents be-tween 50 and 60 percent of all computer users.

Macintosh users face an even smaller number of choices. Only two of the top 20 freeble software that have versions for the

Macintosh. Most of the remaining 50 also require at least Windows 95 or Windows NT.

The future, at least the im-" mediate version of it, seems to suggest that if you don't have at least Windows 95, you're going to have trouble using any of the nifty new software now being. developed, including the two software packages detailed he-

Now, I realize this is overstating the case somewhat, and that there are plenty of quality. Macintosh software programs

out there. And, despite not hav ing the sheer number of programs, there are applications on the freeware list that are impor-

tant Net tools written for both platforms, including both of the .. more popular Web browsing programs (Netscape and Internet Explorer) as well as ICQ, the chat program that is one of the . most useful and flexible Net freeware programs.

See ONLINE Page D6

But the "treebte" list serves up a set of curounstances that is difficult Continued From Page 01

based on the new somewhat quaint idea of open computing, where sev-eral types of computers and operating systems can access the saide material on the Net. Given the software on download com's "50 fabulous" list, it will be interesting to turn of events, for the interpet is of it for Windows 95 or Windows puting in the years to come. see who is talking about open com-This is, at best, an unfortunate Animay, on to the software, all

is Web Informant, Alexa is yet another piece of Web Schikmie supported by a divertusment. This one ported by a divertusment. This one ported by a divertusment who however and does several halpha librags. Best of diverse were a purposed of the web-west are inherable, given the usefulness of Alexa.

web surfers were the same tweful information about he sale they are visitmation about he sale they are visitmation about he sale they are visitmation about he sale they did not
mation the sale is owner, what others
with has been approved for electronsale has been approved for electronsale has been approved for electronsale has been approved for the sale
in our provinces and the sale is the sale
is our provinces. is a good idea to use a credit card Once installed, Alexa provided

If the page you request is temporarily unavailable, the software links by unavailable in the software links, the user to the archived Web page, rather than sumply group the user the standard "AH. Not Found" error Also, it provides links to an archive of 500 000 internet sites. So, ours any time

lar content, which belps save turie. In addition, the software provides a list of other sites with simiшessage

Alexa is free and works with the provisers. Netwaps Awargenor 30 or higher seed in communication of higher than 100 and higher than 100 and higher than 100 and higher than 100 and 10 dated 2/2,96 or later

This is a fix of a memory "leak" from Windows 85 and the links to the updated dynamic library link (dll) file are available from both the Alexa site, www.alexa.com and brom Microsoft's main site at www.microsoft.com. Even if you don't decide to use Alexa, it's a good

According to information on the Alexa sue, there is a less featured version for Power Madroch users but it's only useful for those Macs that access the Net with ethernel idea to update your dll file.

later this year

on the Net. RealPlayer, has come out with an preview version of its improved RealPlayer, something the company is calling RealSystem I G2 Networks, creators of one of the more useful audio/visual programs ■ Audio/Visual Update: Real-

the sound and video quality, no marter what speed you connect to the Net with. The software adjusts the bit-rate (the speed at which data Like the basic RealPlayer, this G2 preview is free and available from the RealNetwork site at data. the current RealPlayer, some dala, especially video dala, is lost as the software "rebuffers" the incoming is transfered to your computer) to match available bandwidth. With Thus promises unprovements in

The RealNetwork folks recommend that people use the 62 player for demonstration only There's no information on when a non-preview version of 62 will be out. Also, mww real.com for Mac users will be out. there's no word on when a version

I norsza wajwandow e ruon

Mac machines (generally cathed 68K machines), or if you use a dial to connection — that is connect with a modem — you'll have to wait for the full version to come out, sometime If you use non-Power

a Player (5) to do dood of your Net a publicy (sold work, made in the more stable Bessele: Noudows it is more stable Bessele: Noudows it is more stable Bessele: Noudows it is work to be sold a load of the bessele in a close Pentum cube post of a least 100 MEs in recommended. You have been you feel to 19 MEs in recommended to 19 MES in recommend sites use this yet, but the main Real Nerwork site includes links to a few can see the officerone sites that use the technology, so you # Windows Change: The

out, use the latest version of Reoffer a free seminar rought on wp grading your PC to Windows 88 The seminar will cover upgrading from 3.1 to Windows 98 to well as moving your PC from Windows 98 to Windows 98 to Windows 98 This begins a 7.20 p.m. at the group's survail movering location, the Mack Trucks World Headman the Mack Trucks World Headman. Lebigh Valley Computer Group will ters, 2100 Mack Boulevard, on Allen

town's south side

Online appears every two weeks to A.M. Magazine's Health & Sci.

ence Servino. It also appears at severy moral Loon, the Morang Call 5 Web size Loonland Tim Blanz (2015 Web size Loonland Tim Blanz (2015 Web size Loonland Tim Blanz (2016 Health and Loonland Call Foldows P. P. M. 18165-1246).

(as his desiration or comments at (as) Esbesses. (by y-enal) at (as) Esbesses. blangger@mcall.com \$601968ST\$

CHR - (M) 151, 159 (N) 201, 207



Bacon's

'Smart browsing' may turn into dumb move by Netscape

find so attractive, with its directories. Actuing Netscape trying to retir- way
vent itself has become an ammial Mi
vent itself has become an ammial Mi
big or the migration of Canada geese. an
Tite once formidable browser ghant
seems aduft. White opportunity an in the form of an antitrust case against

COMPUTERS

Netscape's strategic

plan remains unfo-

cused.

ils chief competitor,

Microsoft



Aud Gilster

NetCenter service

coasts five million members: the compainto a home base for ny hopes to expand it into a major Internet gateway with a host of user-friendly Net explorers that is closely tied to the Netscape browser. NetCenter afready eatures not unlike those of Yahoo! or even America Online.

Does this sound familiar? In its own

"smart browsing" at its site, Type a word can combine functionality with features that are easy to use, for the Net is no longer dominated by techies but by con-Netscape's plan is to create so-called sumers. you an Internet portal service that you'll an integral part of the operating system it produces. The former hopes to give your Net access by making its browser way, Netscape is taking a cue from Microsoft. The latter tries to control

ly hot properties. A portal is a galeway site. The first thing you see when you log attracted by its base of repeat customers indeed, so called "portals" are sudden-The portal concept is what made AOL on to a portal is a directory of destina-tions, mixing navigation features with news and advertising. Properly built, a portal builds a sense of community among users and draws marketers rowser.

rebirth, this time as a

the Internet. The

And now we have the latest Netscape gateway service to new move attempts to build Netscape's

market already crowded with the likes of And that's why NetCenter is joining a Yahoo!. Excile, Infoseek, Lycos and the Nicrosoft. Everybody assumes that the Net is only going to keep growing, and routes. The winners will be those who everyone wants to control the access the unexpected success it is today. soon-to-be-opened Start.com from

can use to filter Net content for their

Center 2.0, which is due out at the end of accept its default settings and therefore wind up at the Netscape site All three features will be part of Net-(bome.netscape.com) every time they June. Millions of people afready use Netscape's browser, most of them og on to the Internet.

> into the browser's location bar (where address), and the browser will pull up you would normally place an Internet

> > services and personalized start page,

hat you'll inevitably want to use its

then want to upgrade to the next version The idea is to hook this buge audience which will include these features as an on the new NetCenler features; they'll of Netscape's Communicator product, integral part of the package.

is generic, the browser will call up a sub-ject guide from the Excite directory. And if the browser car't figure out what you

want, it will use your keyword and run a

Enter "Ford," for example, and you go to the company's Web site. If your term

the address for you.

update function that will deliver the latprowser keep itself updated with all the est versions of the browser, along with those pesky third party add-ons that extend its range. Instead of having to check version numbers and download Purther tightening the knot is an new files, you'll be able to let your atest components.

> you find related unformation. It creates a list of Web sites related by topic to the one you're currently looking at Ideally. you move between sites with a minimum of fuss, always able to categorize and

the Net is drawn from Netscape's recent

alignment with the Alexa Internet ser-

vice, which tracks Web use and helps

A second feature designed to simplify

search for you.

available, allowing vou to customize vour Web experience. Both Yahoo! and Excite A personalized home page also will be have used personalized home pages to

will provide rating systems that parents

group information as needed.
And finally, a new NetWatch feature

significantly expand their repeat traffic. So, what's wrong with Netscape's technology company hasn't played well what In reinvening itself, Netscaperups the risk of diuding its resources. Content development is a game this It demands skillful marketing and an plan? The company behind it, that's understanding of consumer tastes.

company needs to be tightering its focus will need to completely redefine itself to speaks of "convergence" between these succeed. While the browser wars continbecome the Internet's chief entry point.
If I'm right, it marks a dangerous diverue, it will take more than federal action against Microsoft to save Netscape. So, keep an eye on Netscape's bid to Netscape comes late to the fray and sion of resources at a time when the markets and the internet portal business rand uses the term "ecosystem" claimed as its own. When Netscape on the corporate markets it once

Co. grandsbarre Grand ing to Paul Gilster can be reached describe the result), what I hear is jar-gon, and what I see ahead is trouble

PAISE



by Austin Bunn



Talk back! editor@villagevoice.com

PAZZ & JOP CRITICS POLL

What won't they take the funk out of next?



Machine Age

Taking in the Trash When historians finally get around to tackling the Net, the Net will likely tackle them. The source material is already so suffused with static--abandoned home pages, XXX spam, and countless messages that venture, "Testing . . . Are you there?"--that the human signal may be impossible to pick out from the noise. And the volume is only getting louder. The three-year-old WWWAC list (wwwac.org), a 3000-person e-mail congress of mostly New York designers and entrepreneurs, is reaching the tipping point with its archives on servers at Echo. Query the archives through e-mail and you can easily read the handful of initial posts ("Hello, there . . . the few, the proud" and "Hi. I've got the chips, who brought the dip?") from January 1995. But try to read May 1998's file and Echo's software can't deal with it, says list administrator Larry Aronson. "The file is just too enormous."

If we can save everything, then should we? Artist Mark Napier's idea is to decide what's junk and start dumping--not trash the files exactly, but make a public spectacle of them, a tea party of ephemera. Last week, Napier unveiled his virtual compost heap, called the "Digital Landfill" (potatoland.org/landfill), where users can deposit graphics, text, and animations into a roiling stack of castoffs. The site layers the donations on top of one another, so what you get is, not surprisingly, an absolute mess. But, as he notes, our ruins reveal as much about us as our monuments. "The landfill is not supposed to have value," he says. "It creates a view of the subconscious of the Web culture."

Some bits are a little more conscious than others. Last fall, Napier drew the ire of the toy company Mattel for his twisted online culture jam "The Distorted Barbie," where he digitally mutated the plastic bombshell (interport.net/napier/barbie). Napier added the

The state of the s

Village Voice 6/23

.. 412 10 *157663378 MACHINE AGE

BY AUSTINEUNN

Taking in the Trash

hen bistorians finally get around to tackling the Net, the Net will likely rickle them. The source materral is already so sufficied with starte - about dened home pages, XXX spam, and countless messages that venture, "Testing Are you there?" - that the human signal may be smpossible to pick out from the noise. And the

volume is only gerring louder. The threelist (www.ac.org), a 3000-person e-mail congress of mostly New York designers and entrepreneurs, is reaching the noping point with its archives on servers at Echo. Oncry the archives through c-mail and you can easily read the handful of initial posts ("Hello, there. ("Hello, there... the few, the proud" and "Hi. I've got the chips, who brought the digi?") from January 1995 But try to read May 1998's file and

Echa's software can't deal with it, says list administrator Larry Aronson "The file is nist tori cinimious."

If we can save everything, then should we? Artist Mark Napier's iden is to decide what's junk and start dumping - not trash the files exactly, but make a public spectacle of them, a rea party of ephemera. Last week, Napier unveiled his virtual compost heap, called the "Digital Landfill" (pontoland.org) landfill), where users can deposit graphics, text, and autmations into a roiling stack of castoffs. The site layers the donations on top of one another, so what you get is, not our prisingly, an absolute mess. But, as he notes, our ruins reveal as much about us as our asomiments "The landfill is not supposed to have value," he says. "It creates a view of the subconscious of the Web culture."

Some bits are a little more conscious than others. Last fall, Napier drew the ire of the try company Mattel for his twisted online culture ram "The Distorted Barbie," where he digitally mutated the plastic bombshell (in-terport, net/napier/barbie). Napier added the "cease and desist" letter he received from Matrel to the landfill "I made the digital landfill so that I had a place to throw that letter." he admits. With the landfill, he wants to raise meaning about the future of digital objects that don't decay. "In 20 years, will we be collecting digital antiques?" he asks.

he navigation tool Alexa (alexa.com) already is. Developed by the people behand the Internet Archive (archive.org) - the Library of Congress of the Net-Alexa runs below the browser and provides information shout the Web page that you're looking at: who owns it, where most users go to from it, and, if the page is missing, what it used to look like If you encounter a "404 File Nor Found" on a site, Alexa searches through its database of 500,000 Web sites to fill the hole ster Kalde, "But the 404 service has been very useful to a few people, like those who lose

pages on their own servers if they enall?" Effectively, it's a form of public salvage to Alexa, nothing is junk-just impopular Alexa blindly stores even thing on the Net onto tapes, now concurring over 10 terabytes of dara - over half the amount in the Library of Congress, says Kable, Bur ies 100,000 active users are pruning the data through their collective paths, which other users can fol-low One Alexa stat shows that just 1000 stees account for half of the traffic on the Web "The Web made everyone into a publisher,



Bigwig confab: Esther Dyson, Lawrence Lessig, and ira C. Magaziner discuss the future

and Alexa makes everyone into an editor." Kable says

Even with all the evident chaff that remains. Kahle still believes wholcheartedly in broad preservation. "We want a feet of what the whole Net looks like," he says. But he recognizes that Alexa's storage system works for now because most of the data unfine is text As he says, "[storage] starts to become a real issue of volume when everybody has a camcorder pointed at their kid's circlie."

Federalist Papers 2.0

the question was like trying to sluce a tidal wave: where do you draw the line and declaim, "Government begins here" At last week's all-star panel, "The Internet & Public Policy: Wha's in Control?" Harvard Law professor and panelist Lawrence Lessig nailed the recalculant spirit of Netizens "We don't have a problem with governance in cyberspace," said the rhetorically polished "We have a problem with governance"

Leasig. "We have a problem with governance" The three paracipants in the discussion, sponsored by the New York New Media Assodation, would be the inaugural members of the Net's constitutional convention if one ever ivenconverted. Lessig (who also serves as "special master" in the Microsoft antitrust case), Ira Magaziner (a presidential senior adviser and frames of the latest domain name policy), and Eather Dyson (venture capitalist and author of Release 2.0). They are possibly the only people capable of wrestling with the prilicy debate coherently-ur, as they proved last week, at least able to properly frame the question

The Net is exploding with ad hoc, private industry governments, young colonies without state lines. With the rise of alternative ruling budies to arbitrate the privacy and with an archival version. "As a mangionin fea-ture, it seems like, why use this? Why is this here?" says Alera CEO and president Brew-ment "it" is a mirrale. Dyson said. But " is a miseske, Dyson caul. But smaller efforts at regulation, like the nonprofit itata-control service TRUSTE (which Dyson helped inspigare), face the challenge of "legitimaci," said Magaziner,

The government whose paper on domain names policy, (ntia.doc gor/ntiahome/do-nianname/6,5,98dis.htm), released on June 5 and debated by the panel, will face its own operations of legislature. The immarise calls for a monprofit organization, consisting of "stakeholders" from all interested componies, to rule over the nicture out of the top-level domains bke "com" and "net," wresting control away from the corporation Network Solutions,

which currently manages the system. While Lessie agrees with the new system in theory, he argued that the problem is that we don't know who the "stakeholders" are and that in many debares (like that over encryption) we are all stakeholders.

And that's the issue that haunts us, as the Net comes closer to being regulated by specific bridges. who is choosing them? Just what constitutes citi zenship, exactly, and when do we get to vote. The migration toward overatch-ing ruling groups - like the domain name nonprofit-

consensus and public debate, warned Lessig "We're not democrats anymore, but that should force us to figure out why?"

Signal and Noise

Agencies: David Remnick nabbed \$200,000 for Lenin's Tomb. Jue Klein got his own \$200K for Primary Colors. For those bucking to get published, the Agent Research & Evaluation site (agentresearch. com), creared by Bill Martin and his wife, author Beverly Byrne, is intended to "empower authors" with an extensive darabase of about 850 literary agents, their deals, and the 10,000 authors they rep. Though essen-tially a premotional site for a \$30 yearly newsletter, AR&E still offers a telling list of the highest-powered agents behind the best-sellers and an "Agent Verification" function to let writers interrogate the database to ascertain whether their newest suitor is legit. .

Markfeb. First, John Markoff of the Times wrote a front-page story on hacker Kevin Mitnick. Next came the book deal

Markoff and Mitmick's captor Tsutomu Shimomura. Now Miramax is tolling on the Minnick, But can Skeet type 90 words a minute and glower at the same time) . Secret History During the "quiet period" before an IPO, executives must keep all company business on the q.t. But now that ad network DoubleClick has become the Alley's first company to spike in the market (trading now at 35 points), president Kevin Ruan will go public with the perks and perils of opening the company up to investment at the MIT Enterprise Forum meeting on June 24, at the Chase Manhartan bank at 270 Park Avenue. Accountants, lawyers, and investment bankers will be on hand. Call

for Takedonn - a collaboration between

681-1112 for details. E-mail: abunn Wheedmaa cam



"cease and desist" letter he received from Mattel to the landfill. "I made the digital landfill so that I had a place to throw that letter," he admits. With the landfill, he wants to raise questions about the future of digital objects that don't decay. "In 20 years, will we be collecting digital antiques?" he asks.

The navigation tool Alexa (alexa.com) already is. Developed by the people behind the Internet Archive (archive.org) -- the Library of Congress of the Net--Alexa runs below the browser and provides information about the Web page that you're looking at: who owns it, where most users go to from it, and, if the page is missing, what it used to look like. If you encounter a "404 File Not Found" on a site, Alexa searches through its database of 500,000 Web sites to fill the hole with an archival version. "As a navigation feature, it seems like, why use this? Why is this here?" says Alexa CEO and president Brewster Kahle. "But the 404 service has been very useful to a few people, like those who lose pages on their own servers if they crash."

Effectively, it's a form of public salvage: to Alexa, nothing is junk--just unpopular. Alexa blindly stores everything on the Net onto tapes, now containing over 10 terabytes of data--over half the amount in the Library of Congress, says Kahle. But its 100,000 active users are pruning the data through their collective paths, which other users can follow. One Alexa stat shows that just 1000 sites account for half of the traffic on the Web. "The Web made everyone into a publisher, and Alexa makes everyone into an editor," Kahle says.

Even with all the evident chaff that remains, Kahle still believes wholeheartedly in broad preservation. "We want a feel of what the whole Net looks like," he says. But he recognizes that Alexa's storage system works for now because most of the data online is text. As he says, "[storage] starts to become a real issue of volume when everybody has a camcorder pointed at their kid's cradle."

Federalist Papers 2.0

The question was like trying to sluice a tidal wave: where do you draw the line and declaim, "Government begins here"? At last week's all-star panel, "The Internet & Public

Policy: Who's in Control?" Harvard Law professor and panelist Lawrence Lessig nailed the recalcitrant spirit of Netizens. "We don't have a problem with governance in cyberspace," said the rhetorically polished Lessig. "We have a problem with governance."

The three participants in the discussion, sponsored by the New York New Media Association, would be the inaugural members of the Net's constitutional convention if one ever were convened: Lessig (who also serves as "special master" in the Microsoft antitrust case), Ira Magaziner (a presidential senior adviser and framer of the latest domain name policy), and Esther Dyson (venture capitalist and author of *Release 2.0*). They are possibly the only people capable of wrestling with the policy debate coherently--or, as they proved last week, at least able to properly frame the question.

The Net is exploding with ad hoc, private-industry governments, young colonies without state lines. With the rise of alternative ruling bodies to arbitrate the privacy andcensorware debates--"private architectures" as Lessig terms them--"to call the government 'it' " is a mistake, Dyson said. But smaller efforts at regulation, like the nonprofit data-control service TRUSTe (which Dyson helped instigate), face the challenge of "legitimacy," said Magaziner.

The government white paper on domain names policy, (www.ntia.doc.gov/ ntiahome/ domainname/6 5 98dns.htm), released on June 5 and debated by the panel, will face its own questions of legitimacy. The initiative calls for a nonprofit organization, consisting of "stakeholders" from all interested companies, to rule over the meting out of the top-level domains like ".com" and ".net," wresting control away from the corporation Network Solutions, which currently manages the system. While Lessig agrees with the new system in theory, he argued that the problem is that we don't know who the "stakeholders" are, and that in many debates (like that over encryption) we are all stakeholders.

And that's the issue that haunts us: as the Net comes closer to being regulated by specific bodies, who is choosing them? Just what constitutes citizenship, exactly, and when do we get to vote? The migration toward

THE THINGS TOICE. Cyce.

overarching ruling groups--like the domain name nonprofit--signals a trend away from consensus and public debate, warned Lessig. "We're not democrats anymore, but that should force us to figure out why."

Signal and Noise

Agencies: David Remnick nabbed \$200,000 for Lenin's Tomb. Joe Klein got his own \$200K for *Primary Colors*. For those bucking to get published, the Agent Research & Evaluation site (www.agentresearch.com), created by Bill Martin and his wife, author Beverly Byrne, is intended to "empower authors" with an extensive database of about 850 literary agents, their deals, and the 10,000 authors they rep. Though essentially a promotional site for a \$30 yearly newsletter, AR&E still offers a telling list of the highest-powered agents behind the bestsellers and an "Agent Verification" function to let writers interrogate the database to ascertain whether their newest suitor is legit. . .

HackJob: First, John Markoff of the Times wrote a front-page story on hacker Kevin Mitnick. Next came the book deal for Takedown--a collaboration between Markoff and Mitnick's captor Tsutomu Shimomura. Now Miramax is rolling on the Takedown film, set to star Skeet Ulrich as Mitnick. But can Skeet type 90 words a minute and glower at the same time? . . .

Secret History: During the "quiet period" before an IPO, executives must keep all company business on the q.t. But now that ad network DoubleClick has become the Alley's first company to spike in the market (trading now at 35 points), president Kevin Ryan will go public with the perks and perils of opening the company up to investment at the MIT Enterprise Forum meeting on June 24, at the Chase Manhattan bank at 270 Park Avenue. Accountants, lawyers, and investment bankers will be on hand. Call 681-1112 for details.

Previous Machine Age features:

- June 9, 1998 (Burning Bridges)
- June 2, 1998 (Señor Stereotype).May 26, 1998 (Opening Windows)
- May 19, 1998 (Photographic Memory)
- May 12, 1998 (Cyber Activism, ATM)

Front page, News, Sports, Money, Life, Monton, Marketplace

Tech Report

Inside Tech

- FAQ. Tips and **Tricks**
- Web Column
- Hot Sites
- Tech News
- Tech Reviews
- Answer Desk
- Shareware Shelf
- Web Potholes
- Web Resources
- Tech Front

BUY IT NOW >

Markelplace

- Hardware
- Accessories
- Software

Search

- Newspaper Archives
- Our site

Resources

- Index
- Feedback
- · What's hot
- About us
- Jobs at USA TODAY

06/24/98- Updated 11:58 AM ET

The Nation's Homepage

Secrets about online privacy

Internet privacy is in the news this week, as trade associations announce self-regulatory plans and the Department of Commerce holds a two-day privacy summit to assess threats to online privacy and the technological and industry solutions available.

But what exactly should you be worried about as you wander the Weh?

Remember that convenience vs. privacy has always been a trade-off. If your bank teller knows you by name, you can cash a check without ID, but he'll also remember when you clear out your account prior to running away to Tahiti. The grocery clerk from your church may let you pay later if you forget your wallet, but do you want to buy the latest copy of Playboy from her?

We make decisions about who should know what about us every day in the real world. But we may not realize just how much of an open book our lives are on the Internet - or we may be more worried than we need to he.

Many users' first concern is whether a Web site can figure out who they are just by viewing a page. Happily, the answer is no.

The Center for Democracy and Technology lists tips for keeping information private. Among them:

- · Check for a Web site's privacy policy. If the site operators don't tell you what they plan to do with the data they collect about you, do you really want to give it to them?
- Clear your browser's memory cache after each session online. The cache saves copies of the pages you visited, making return trips quicker but also leaving a trail of your wanderings. To delete it, go to your browser's Preferences folder and click "Empty Cache."
- Don't accept "cookies," thus refusing to give Web sites any information about you when you return.

All Web sites generate what are known as user logs, second-by-second listings of visitors to the site, which pages they looked at and how long they looked.

But note that when a log lists visitors, it merely means the name of

the computer that hooks the user to the Internet. If you're an AOL user, the log would say "AOL user." If you've got an account from a local Internet service provider, it might give the name of one of that ISP's computers, say, Haiti4.hooked.net

Despite public fears to the contrary, there's actually very little individually identifiable information that can be gleaned from your merely visiting a Web site. For a look at what a site can see about you, use the Center for Democracy and Technology (CDT) privacy demonstration page at www.13x.com/cgi-bin/cdt/snoop.pl.

CDT policy analyst Ari Schwartz points out that security flaws in some older Web browsers made it possible for sites to collect e-mail addresses if a special program was used. But those flaws have been fixed in all newer browsers, so there's little chance your e-mail address is accessible to the sites you visit.

The only real danger from visiting a site is that you might get "sprayed." In a technique used by some unscrupulous spammers, or junk e-mailers, the site notes it has had a visit from a certain Internet server and then "sprays" everyone at that host name with e-mail. Mail of this type, if the spammer hasn't bothered to cover its tracks, will come addressed (as an example) to anybody@usatoday.com, and will hit all working addresses at that computer.

Concerns over cookies

When a Web site drops what's known as a "cookie" on your computer's hard drive, more information becomes accessible, but still not your real name or e-mail address. Cookies are small bundles of code that allow the Web site's computer to recognize you as a return visitor, though only a number.

Cookies let Web sites keep track of what a user is doing for the duration of a visit. For example, cookies make shopping easier. When you go to the L.L. Bean Web site, you can put the boots on page 4 in your shopping basket and the site knows you're the person who wants a pair of size 11s long before you get to the page where you fill in your name, address and credit card number.

This also allows the site to tailor to your specific interests the banner ads that pop up. It may not know your name, but it knows that Customer 5423 is interested in international politics, wind surfing and fine wine. Thus, as 5423 surfs through the site, or comes back on a return visit, the ads that pop up are more likely to be for travel, extreme sports and a vintage-of-the-month club.

None of this really worries privacy experts, as Customer 5423 remains anonymous. What keeps them up at night is what happens when Customer 5423 divulges specific identifying information

about himself online, either to register for a site, to buy something or to take part in a survey or contest.

It's called push-forward marketing, and suddenly Customer 5423 becomes Jason R. Public, and a marketing person's dream.

Once a site can connect your name or e-mail address with other information you might give it — age, sex, income, interests, number of children, whatever — the whole game changes. Every time you visit the site, it gathers more information about your interests. That data may lead to tailored content, but also to information that can be sold.

Not that this doesn't already happen in the physical world, points out John Featherman, editor of the *Privacy Newsletter*. "Within three weeks of subscribing to *Time*, you're getting offers to subscribe to *U.S. News & World Report*. What happened was you got on *Time's* list and either through themselves or through a list manager, they brokered your name."

Online, the process is merely quicker and more prevalent, as most of us subscribe to only a few magazines, but visit hundreds of Web sites. Agencies make about a dime per e-mail address, more if it's a list of a specific type, such as all women or all confirmed buyers of online goods.

This week's announcements by industry groups such as the Online Privacy Alliance (www.privacyalliance.org), the Council of Better Business Bureau's OnLine Privacy Program (www.bbbonline.org) and TRUSTe (www.truste.org) all focused on providing Web users with clear descriptions of what information is being collected and what would be done with it. Each group has rules requiring that member sites make it easy for users to choose not to allow their information to be used for anything but the original reason it was requested.

That would be welcome news to *Privacy Journal* publisher Robert Ellis Smith, who tracks just how hard it can be to say "no." He says, "My personal experience is that even those with personal privacy policies make it extremely difficult to opt out. You have to call an 800 number, for example."

No more privacy in distance

But even if you've never registered at a Web site in your life, a remarkable amount of information is available about you online. Reverse-phone-look-up directories, mapping services and online white pages all make it easier than ever to find someone, a boon if you're looking for a long-lost friend but sinister if you're being stalked, or simply value your anonymity.

Reverse-look-up directories — such as the one at InfoSpace (www.infospace.com) — are arranged by phone number or address rather than name. Formerly quite cumbersome and available only as local references in newsrooms and libraries, they've suddenly become simple and national in scope. Type in a phone number, and find the name and the address of the person it belongs to. Type in the address, and get the name and phone number.

Beyond that, there are numerous free mapping sites, such as www.mapquest.com, that do an excellent job of taking two addresses and drawing a door-to-door map between them, across town or across country. Thus, the presumed privacy of distance evaporates like morning fog.

To test how much information one tiny identifier might give up on its own, Ellis provided one of his *Privacy Journal* interns a single phone number and asked him to find everything he could about the person it belonged to.

"He was able to get the name and address, and then the office name. Then we were able to get the address there. And then we were able to get the person's job title, and then we got a map to that address, and from that we were able to get addresses for their neighbors."

While it's certainly not illegal, or even unethical, there's something a little creepy about looking up your mother (who's never been online in her life) and finding her address, her phone number, a list of all her neighbors and turn-by-turn directions to her house.

A trail of breadcrumbs

Things get much more interesting when you're looking for information about someone who spends a lot of time on the Internet. Services such as DejaNews (www.dejanews.com) keep archives of Usenet news-group postings and the Web, so musings you might have thought minor become the stuff of history.

If you've ever posted to a news group, or participated in a Web site's discussion, there's a good chance DejaNews has the exchange in its archives. Though companies don't make it generally known, in private some say they routinely do a search on potential hires' names to see what they've been spouting off about.

And remember that Web site your teen-ager put up that you made him take down as soon as you saw it? If Brewster Kahle's Internet Archive program got to it before you did, it now is forever preserved in not one but two repositories, eternally available to those who visit www.alexa.com.

Our control over our information online should increase

dramatically over the next six months, as businesses scramble to self-regulate. (Follow the summit's proceedings at www.ntia.doc.gov.)

The Clinton administration is scrambling to match Europe's tougher online privacy standards that take effect Oct. 25. Companies wanting to do business there must match its much-stricter privacy safeguards, which include not using information gathered online from Europeans for uses other than those stated.

"The (old) status quo was very few laws and only mild threats to privacy. The new status quo is more threats to privacy," says Peter Swire, a professor of law at Ohio State University and an expert on international privacy issues. "The question is, do we need new laws?"

By Elizabeth Weise, USA TODAY

Front page, News, Sports, Money, Life, Weather, Marketplace

©COPYRIGHT 1998 USA TODAY, a division of Gannett Co. Inc.





Click here for 3Com.



NEWS.COM front page

Join now FREE!

MENU
Front Door
The Net
Computing
Intranets
Business
Investor
CNET Radio
Perspectives
Newsmakers
Rumor Mill

NEWS OPTIONS All the Headlines Desktop News News Alerts Custom News Advanced Search Push



SPONSORED LINKS Free Video! Windows 98 Center Circuit Board Visa

RESOURCES
Subscribe
Member Services
Contact Us
Help

ABOUT CNET
Introduction
Company Profile
Press Releases
Investor Relations

The Net

- back to

Send this story to a friend

Alexa stats now on IE 4

By Beth Lipton Staff Writer, CNET NEWS.COM June 29, 1998, 1:25 p.m. PT

audio <u>Alexa Internet</u> has updated its "surf engine" technology with a version designed specifically for Microsoft Internet Explorer 4.0 users.

Alexa Internet's technology is installed into a user's browser and provides site statistics and related sites wherever she or he goes on the Web. The goal is to aid the surfer in doing research or comparison shopping, for example, the firm said

The new technology, Alexa 2.0 for IE 4.0, loads like a Web page and can be



installed in less than a minute, according to Alexa Internet. The 45K application is installed with the click of a mouse; there are no download and install procedures. Alexa 2.0 appears in the browser frame as a toolbar and displays information about the sites a user visits in the IE sidebar.

The site statistics by Alexa 2.0 include to whom the site is registered, how popular it is, how many sites link to it, and whether it is safe for e-commerce. The technology also offers a list of related sites based on other Alexa user patterns.

Netscape incorporated Alexa technology into in its upcoming Communicator 4.5 suite, as part of the "smart browsing" offerings. A "what's related" feature, developed from a partnership between Netscape and Alexa, provides a drop-down box with an automatically generated list of recommended related sites. The feature relies on servers for Netcenter (Netscape's portal site) for a database of links, which are automatically updated via software that tracks surfers' Web usage.

Alexa is archiving publicly available content on the Web so that users who get a "404 Not Found" error message can view the most

Printer-friendly version

Latest Headlines display on desktop

The Net Hotmail log-out leads to Start

Net literacy growing, study says

Bertlesmann chair seeks Net rules

@Home to go to more homes

TheGlobe.com to host spam summit

New holes in Net services

Computing Compaq setting Asian goals

Intergraph dispels Intel's claims

Sony basing AV line on Vaio PCs

Win 98 China to launch in August

Slow sales hit modems

Hitachi, Microsoft sign CE deal

Old Microsoft bug hits Macs

Intranets Shadows on Sun's path

JDK debut pushed back

Business
Sun nears NetDynamics
buyout

Healtheon to buy Metis for stock

Packard Bell chief gone

Packard Bell chief gone

Atmel reorg forces job

customers

Miss a day?

enter email

Subscribe

sample

All the Headlines

FRFF newsletter

cuts

Company Contacts Job Openings Permissions How to Advertise Awards Conferences

CNET SERVICES CNET.COM COMPUTERS.COM BUILDER.COM GAMECENTER.COM DOWNLOAD.COM SHAREWARE.COM BROWSERS.COM ACTIVEX.COM SEARCH.COM SHOPPER.COM CAREER CENTER SNAP! ONLINE

Found" error message can view the most recently archived version of an unavailable Web Telco hurdles may hurt page.

"The Alexa service has been the Web's best-kept secret, reserved largely for those Web surfers who like comparison-shopping the sites they are surfing," Peter Krasilovsky, vice president of research firm Arlen Communications, said in a statement.

Related news stories

- · Netscape ups portal efforts
- · Alexa accessorizes browsers
- Alexa makes the Web history

Tech Talk...

Join the discussion!

Go to Front Door | The Net | Search Short takes | All the Headlines

- Unbeatable software deals at Cyberian Outpost
- · Bid on computer products at Surplus Auction
- · Tune up your computer at BuyDirect.com
- · Get computer bargains at Surplus Direct
- · Save on computer books at Borders.com

Click here for 3Com.

Back to Top

Copyright © 1995-98 CNET, Inc. All rights reserved. Privacy policy.

The Alexa Effect

Can a new Web utility help topple the portal regime? Steven Johnson reports.

POSTED 86.26.91

IS THE SOFTWARE INDUSTRY locked in a state of malaise? If you look beneath the daily exhaust of press releases and product launches, and focus more on ground-level innovation than market valuations, you might be inclined to say yes. Despite the constant flag-waving about its "right to innovate," Microsoft has just released a 120 MB bug fix, decked out in the emperor's new clothes of a Major Upgrade. Our interfaces remain tethered to conventions designed 20 years ago. Even *The Wall Street Journal* is now <u>carping</u> about the lack of progress in the software industry.

But if the digital paradigms are stagnating right now, there is still reason for encouragement. I think we may well be on the verge of another high-tech tipping point, and the most telling sign to date arrived last month, with Netscape's announcement that it would integrate a small net application called Alexa into its core browser product. While much of the high-tech world has fixated on Microsoft's agitated shell game with the browser and the desktop, the Alexa software does more to revolutionize our understanding of the web than anything in Windows98. And unlike Microsoft's cumbersome upgrade, it only takes a minute to download.

THE FACT THAT ALEXA has gone more or less unheralded shouldn't surprise us. Even the canonical great inventions of history -- the steam engine, the incandescent bulb, the telegraph -- were actually "invented" several times before the official credited date. In each case, though, the invention failed to ripple out into the wider society, and disappeared from world-history's view. As Jared Diamond writes in his Pulitzer-Prize-winning book, *Guns, Germs, and Steel*, "All recognized famous inventions had capable predecessors and made their improvements at a time when society was capable of using their product." For a tipping point to take place -- for the telegraph or the combustible engine to take off --

CYBERIA

Alexa, the first of a new genre of surf engines, is free to download from its site. The program is both search engine and personal web guide in one. Its "Where You Are" feature provides information about the site you are viewing; its "Where to Go Next" feature automatically provides you with links to related sites; its "Archive" allows you to find missing pages; and its reference section gives you a portable encyclopedia and dictionary.

1 of 6

you need some sort of tweak to the basic model, and you need an environment that is hospitable to the innovation. The actual innovation can be small, as long as the wider context is a fertile one.

If you're measuring by the byte, Alexa's innovation certainly qualifies as "small." Or at least it qualifies on the client-side, where the user interacts with a 700K utility application that runs parallel to an ordinary browser, like Navigator or Explorer. On the server-side, however, Alexa is a behemoth: a massive conglomerate of tape drives, prowled by a mechanical hand fingering through 12 Terabytes of data -- "half the content of the books in the Library of Congress," says co-creator Brewster Kahle. The drives are devoted to storing and regurgitating the entire contents of the World Wide Web -- and not just its current state, but also earlier incarnations. This comprehensive storage technology enables the Alexa software to perform its most celebrated trick: retrieving old pages when the user encounters a "404: File Not Found" message. Most of the attention paid to Alexa to date has focused on this archiving feature, but the brilliance of the utility extends well beyond that.

In the most generic sense, Alexa belongs to the family of web guides, providing you with meta-information about sites, and recommending new places to visit. But its actual implementation reverses all of our expectations about how guide software is supposed to behave. Most guides on the web today are some variation of the tried-and-true portal model: a place you go for advice about how best to go elsewhere. And the advice dished out remains exclusively the product of individual human minds -- the muddled mass of interns and site-raters gathered together in the cubelands of SNAP, Yahoo, and Excite.

This is a perfectly logical way to structure a web guide business, but Alexa has nothing to do with it. In a real sense, Alexa offers the most persuasive challenge yet to this year's portal frenzy, mainly because it zeroes in on the contradiction at the heart of any successful search engine: the doorway is the destination. (Scott Rosenberg penned an extremely sharp piece on this theme in last week's Salon.) In a field that was supposed to be all about

CYBERIA

The official Alexa site contains links to other out recent articles that have been written about the web utility. As Peter Lyman, head librarian for the University of California at Berkeley and an Internet Archive board member, is quoted as saying in the San

Francisco Chronicle,
Clearly we need better
tools for exploring the web.
Alexa is trying to help us
find our way out of the
forest by looking for trails
where previous people have

gone. It's the most promising idea about how we'll search the Internet in the future." disintermediation, the portal sites have become, against all odds, the \$5 billion-dollar middle-men. According to the bizarre logic of the search engine wonderland, you have to go somewhere first to go somewhere else. The radical proposition behind Alexa is this: why not just go somewhere else?

There are currently
11 posts for this segment.

Niall:
"In Search of Lost Pages"



ALEXA APPEARS on the screen as a small toolbar. launching alongside your web browser, waiting patiently at the bottom of the screen for you to request a URL through the browser: either by typing into the text field, selecting a bookmark, or clicking on a link. Once the application detects a URL request, it scurries off to the Alexa servers in San Francisco, where it queries the database for information about the page you're visiting. If the URL request ends in a File Not Found message, the Alexa application trolls through the archives for an earlier version of the page. (Webmasters beware -that "click here for a picture of my dog" page you thought you trashed years ago may yet be reborn.) But Alexa also returns interesting information about valid pages, and this is where the program really breaks new ground.

Pay a visit to Yahoo with Alexa fired up in the background, and you'll see information about the web site's Internic registration; you'll see a site rating, compiled either from the ZD Net archives or from the collective ratings of Alexa users; you'll see information about Yahoo's traffic, the number of pages on its servers, even the speed of those servers. And by clicking on the tantalizing, vaguely-Win95-like "What's next?" button, you'll see a list of "similar sites" in the venerable web tradition of Firefly's recommendations agent: if you liked this site, you might like these others. (The recommendations for Yahoo were accurate enough, if predictable: Infoseek, Snap, AOL's home page.)



The easiest way to appreciate the beauty of this model is to take the above experiment (visit Yahoo with Alexa as a guide) and reverse it. You can visit Yahoo for information about Alexa, but unless the interns and the site-raters have bothered to cook up a review, you're not likely to find anything but pointers to pages on the Alexa site. But when you actually follow those links to Alexa, you leave

CYBERIA

In Scientific American Brewster Kahle examines both the pressing need for and the difficulties of creating a digital archive of the internet. "Where we can read the 400 year-old books printed by Gutenberg, it is often difficult to read a 15 year-old computer disk. The Commission for Preservation and Access in Washington DC has been researching the thorny problems faced trying to ensure the usability of the digital data over a period of decades. Where the Internet Archive will move the data to new media and new operating systems every 10 years, this only addresses part of the problem of preservation."

Yahoo behind. It takes a software application like Alexa to make you realize the absurdity of this behavior. What kind of guide stays behind every time you want to head out from base camp?

Alexa's founders have a term for this new category of web guides -- "surf engines." The guide accompanies you as you surf. There's something immediately satisfying about this model, even if the economics behind it aren't totally clear. (The Alexa toolbar leaves little room for advertising -- thus far the bread and butter of the portal sites.) Shifts like these can seem minor when you first encounter them, but if other software designers begin to emulate them, they could have a profound effect on the larger web ecology. As Kahle explained to me in an e-mail correspondence, "Where the search engines are going toward being 'portals' and keeping you on their content, 'surf engines' work with you no matter where you are." Embedded in that distinction is an entire web weltanschauung. "Alexa works to make the whole web useful," Kahle explains, "while the search engines are going towards the 10 channels model of TV."

All of which points to something puzzling in Netscape's decision to bundle Alexa with its July browser release. Having just re-invented itself as a portal site, competing with Yahoo and Excite, Netscape now decides to integrate the most formidable challenge to the search engine hegemony to date. Perhaps this is what savvy software companies do: bet on the most impressive young colt out of the gate, even if it's not running in the direction they'd like. (Certainly this has been Microsoft's strategy in recent years.) But a skeptic might be inclined to think that Netscape -- or at least the part of Netscape that fashions itself a portal company -- is putting its money behind a Trojan horse.

THE FEATURE THAT truly exploits the new possibilities of "surf engines" is Alexa's "What Next?" button. In its current manifestation, the software relies on several datapoints to divine related sites as you travel across the web. Sometimes that data is as straightforward -- and as Yahoo-like -- as an individual human's recommendation. But Alexa is increasingly relying on Firefly-like

CYBERIA

Scott Rosenberg's Salon on the web portal's value has been exaggerated. "[B]ig-media corporations -- daunted by the difficulty of building bustling web hubs from scratch -- are hungrily eyeing the existing portal-style businesses. The result? A marketplace that is wildly overvaluing the portal -- as if a doorway were more valuable than a whole building."

collaborative filtering algorithms to generate its "What's next?" recommendations. The software learns by watching the behavior of other Alexa users: if a hundred users visit FEED and then hop over to Suck, then the software starts to perceive a connection between the two web sites, a connection that can be weakened or strengthened as more behavior is tracked. In other words, the associations are not the work of an individual consciousness, but rather the sum total of thousands and thousands of individual decisions, a map to the web culled together by following an unimaginable number of footprints.

It's an intoxicating idea, and a strangely fitting one. After all, a guide to the entire web should be more than just a collection of hand-crafted ratings. As Kahle says, "Learning from users is the only thing that scales to the size of the web." But it is more than just a scale issue; it's also one of adaptability. Alexa belongs to a species of code that can be classified -borrowing a term from complexity theory -- as "emergent software." Emergent behavior describes the spontaneous order that self-organizes out of countless low-level decisions: neighborhoods, ant colonies, invisible hands. Alexa's power of association (this site is *like* these other sites) emerges out of the desultory travels of the Alexa user base. The understanding of the web doesn't reside with any single individual in that group; it develops, instead, out of the collective intelligence they create simply by surfing.

The fringe benefit of this model -- intelligent software that works from the bottom up, and not from the top down -- is that the software gets smarter the more people use it. If only a thousand people fire up Alexa alongside their browsers, the recommendations simply won't have enough data behind them to be accurate. But add another ten thousand users to the mix, and the site associations gain resolution dramatically. In other words, the software gets better at what it does when more people interact with it. This may have a familiar ring to readers who have been following the recent debate over the Microsoft monopoly, particularly the

FEED DAILY

In his Feed Daily, Steven Johnson looks at the run of portal acquisitions. "Now that Disney's holding 43% of Infoseek, and NBC has wrested control of junior portal Snap!, two of the big four television networks have bought their way into a market share online that rivals their share on television... [These new] portals may have Wall Street behind them, but it's quite possible that Netizens will reject this backhanded resurrection of the broadcast model."

succession of op-eds and thinkpieces about "network externalities": the self-reinforcing feedback loop that develops when your product becomes more attractive the more people use it. But as the phrase suggests, those feedback loops are triggered by external properties of the software. Windows95 becomes more appealing with more users because there are more software applications, a wider range of compatible hardware, better technical support, and so on. The core functionality of Windows95 doesn't improve with more users; it's the code that surrounds the OS that gets more valuable. Emergent software like Alexa -- where the core functionality improves with a wider user base -- takes this phenomenon a step further. It may be time for the economists to start talking about network internalities.

Alexa's emergent model is not likely to spawn a monopoly like Microsoft's, of course, and it may not deliver a death-blow to the portal regime. (Or at least it won't without a hundred imitators.) But anyone still enamored by the original ethos of the web -- a mirror world that organizes and expands our collective intelligence -- should find something heartening in the Alexa application. While much of the digital landscape creeps towards the familiar patterns of broadcast television, Alexa serves as a small but potent reminder of what the web was supposed to be, and maybe even an augur of things to come.

Share your thoughts on emergent software and the portal regime in the FEED Loop.

HOME SEARCH SITE INDEX

©1998 FEED Inc.

2 6/28/98

Times (Gainseille, GA) Gametholeus

Bob Laird, USA TODAY

they looked

sacrifice



Others can learn about you, but don't let that stop you from surfing Web

to online privacy and the techtions available nological and industry soluregulatory plans and the Deassociations announce selfthe news this week, as trade held a summit to assess threats partment of Commerce has

der the Web? be worried about as you wan-But what exactly should you

teller knows you by name, you est copy of Playboy from her? but do you want to buy the lat your church may let you pay you clear out your account but he'll also remember when can cash a check without ID been a trade-off. If your bank mence vs privacy has always later if you forget your wallet Tahiti. The grocery clerk from prior to running away Remember that conve-

out who they are just by viewwhether a Web site can figure we need to be us every day in the real world who should know what about we may be more worried than lives are on the Internet — or how much of an open book our But we may not realize just Many users' first concern is

tors to the site, which pages and-by-second listings of visiare known as user logs, swer is no ing a page. Happily, the an-All Web sites generate what , secGannett News Service By Efizabeth Welse

Internet privacy has been in

Schwartz points out that secubrowsers, been fixed in all newer was used. But those flaws have dresses if a special program sites to collect e-mail adrity flaws in some older Web browsers made it possible for CDT policy analyst so there's little

and credit card number.

We make decisions about

they looked at and how long that host name with e-mail and then "sprays" everyone at from a certain Internet server get "sprayed." In a technique Mail of this type, if the spamspammers, or junk e-mailers visiting a site is that you might the site notes it has had a visit used by some unscrupulous The only real danger from

name of one of that ISP's comprovider, it might give the If you're an AOL user, the log would say "AOL user." If name of the computer that visitors, it merely means the ocal you've got an account from a hooks the user to the Internet puters, say, Haitis hooked net But note that when a log lists internet Service mer hasn't bothered to cover what's known as a "cookie" on that computer. hit all working addresses at body@usaloday.com, and wil (as an example) to any its tracks, will come addressed your computer's hard drive Concern over 'cookies'

Danger overstated

name or e-mail address Cookcessible, but still not your real more information becomes ac-

When a Web site drops

bin/cdt/snoop.pl www.l3x.com/cgi demonstration and Technology (CDT) privacy use the Center for Democracy what a site can see about you, iting a Web site. For a look at contrary, there's actually very gleaned from your merely visinformation that little individually identifiable Despite public fears to the Can o e a

number

turn visitor, though only

puter to recognize you as a rethat allow the Web site's comies are small bundles of code

put the boots on page 4 in your track of what a user is doing you fill in your name, address fore you get to the page where wants a pair of size 11s long be knows you're the person who shopping basket and the site L.L. Bean Web site, you can ping easier. When you go to the example, cookies make shopfor the duration of a visit. For Cookies let Web sites keep

accessible to the sites you visit. chance your e-mail address is the-month club visit, the ads that pop up are site, or comes back on a return ested in international politics ner ads that pop up. It may not tailor to your interests the bantreme sports and a vintage-of more likely to be for travel, ex Thus, as 5423 surfs through the wind surfing and fine wine that Customer 5423 is interknow your name, but it knows This also allows the site to

See Privacy 20

- Y

ued from 1C ادر

None of this really worries privacy experts, as Customer 5423 remains anonymous What keeps them up at night is what happens when Customer 5423 divulges specific identifying information about himself on line, either to register for a site, to buy something or to take part in a survey or contest.

It's called push-forward marketing, and suddenly Customer 5423 becomes Jason R. Public, and a marketing person's dream

Once a site can connect your name or e-mall address with other information you might give it — age, sex, income, interests, number of children, whatever — the whole game changes. Every time you visit the site, it gathers more information about your interests. That data may lead to tailored content, but also to information that can be sold.

Not that this doesn't already happen in the physical world, points out John Featherman, editor of the Privacy Newsletter. "Within three weeks of subscribing to Time, you're getting offers to subscribe to U.S. News & World Report. What happened was you got on Time's list and either through themselves or through a list manager, they brokered your name."

Online, the process is merely quicker and more prevalent, as most of us subscribe to only a few magazines, but visit hundreds of Web sites. Agencies make about a dime per e-mail address, more if it's a list of a specific type, such as all women or all confirmed buyers of online goods.

This week's announcements by industry groups such as the Online Privacy Alliance (www.privacyalliance org), the Council of Better Business Bureau's OnLine Privacy Program (www.bbbonline.org) and TRUSTe (www.truste.org) all focused on providing Web users with clear descriptions of what information is being collected and what would be done with it. Each group has rules requiring that member sites make it easy for users to choose not to allow their information to be used for anything but the original reason it was requested

That would be welcome news to Privacy Journal publisher Robert Eilis Smith, who tracks just how hard it can be to say "no."

He says, "My personal experience is that even those with personal privacy policies make it ex-

"The (old) status quo was very few laws and only mild threats to privacy. The new status quo is more threats to privacy."

Peter Swire law professor

tremely difficult to opt out You have to call an 800 number, for example,"

No privacy In distance

But even if you've never registered at a Web site in your life, a remarkable amount of information is available about you on-line. Reverse phone-look-up directories, mapping services and on-line white pages all make it easier than ever to find someone, a boon if you're looking for a long-lost friend but sinister if you're being stalked, or simply value your anonymity

Reverse-look-up directories—such as the one at InfoSpace (www.InfoSpace.com)— are arranged by phone number or address rather than name Formerly quite cumbersome and available only as local references in newsrooms and Ilbraries, they've suddenly become simple and national in scope. Type in a phone number, and find the name and the address of the person it belongs to. Type in the address, and get the name and phone number.

Beyond that, there are numerous free mapping sites, such as sww mapquest com, that do an excellent job of taking two addresses and drawing a door-to-door map between them, across town or across country. Thus, the presumed privacy of distance evaporates like morning fog.

To test how much information one tiny identifier might give up on its own, Ellis provided one of his Privacy Journal interns a single phone number and asked him to find everything he could about the person it belonged to

"He was able to get the name and address, and then the office name Then we were able to get the address there And then we were able to get the person's job title, and then we got a map to that address, and from that we were able to get ad-

dresses for their neighbors "

While it's certainly not illegal, or even unethical, there's something a little creepy about looking up your mother (who's never been on line in the life) and finding her address, her phone number, a list of all her neighbors and turn-by-turn directions to her house.

Trall of bread crumbs

Things get much more interesting when you're looking for information about someone who spends a lot of time on the Internet. Services such as DejaNews (www.de-janews.com) keep archives of Usenet news-group postings and the Web, so musings you might have thought minor become the stuff of history.

If you've ever posted to a news group or participated in a Web site's discussion, there's a good chance belanews has the exchange in its archives. Though companies don't make it generally known, in private some say they routhely do a search on potential hires' names to see what they've been spouting off about

And remember that Web site your teen-ager put up that you made him take down as soon as you saw it? If Brewster Kahle's Internet Archive program got to it before you did, it now is forever preserved in not one but two repositories, eternally available to those who visit www.alexa.com.

Our control over our information on line should increase dramatically over the next six months, as businesses scramble to self-regulate. (Follow the summit's proceedings at www.ntia doc.gov.)

The Clinton administration is scrambling to match Europe's tougher online privacy standards that take effect Oct 25 Companies wanting to do business there must match its much-stricter privacy safeguards, which include not using information gathered on-line from Europeans for uses other than those stated

"The (old) status quo was very few laws and only mild threats to privacy. The new status quo is more threats to privacy," says Peter Swire, a professor of law at Ohio State University and an expert on international privacy issues.

"The question is, do we need new laws?"



Click here for HealthAxis



Join now for free!

Features

Reviews

Top Downloads

Personalities

FROM THE CNET NETWORK COMPUTERS

NEWS.COM

Radio

CNET TV

Help!

Newsletters

Glossary

ABOUT CNET Introduction Company Profile

Press Releases
Investor Relations
Company Contacts

Jobs at CNET

Permissions

How to Advertise
International Briefs

<u>Awards</u> Conferences

CNET SERVICES
NEWS.COM
COMPUTERS.COM

DOWNLOADS AND RESOURCES

Haven't had enough of bots yet? Well, we've barely scratched the surface of this fascinating topic. Below, you'll find places where you can learn more about bots, use and interact with them over the Internet, and even download your own to run right from your desktop.

SPIDERS ON YOUR DESKTOP: SEARCH BOTS

YOUR OWN PERSONAL SHOPPER: SHOP BOTS

SOMEONE TO TALK TO:
CHAT BOTS

General information and archives

<u>BotSpot</u>: Reviews of recently created bots, links to hundreds of bot-related Web sites, home of the "Bot of the Week" award

The Simon Laven Page: An archive of chat bots; a Java-based chat area lets you talk to some of them

<u>Loebner Prize</u> and <u>Turing Test '98</u>: The home sites of international bot intelligence contests

The Web Robots Pages: Lots of information about search-oriented bots, including a list of more than 150 Web spiders

Search bots

CyBot (Win95/NT, \$49.95, free demo) from Virtual Gallery Inc.

<u>MacroBot</u> (Win 95/NT, \$49, free demo) from Information Projects Group Inc.: Standalone search bot

Web Bandit (Win 95/NT, \$149, free demo) from JW's Software Gems

<u>WebMole</u> (Win95/NT, \$199, free demo) from Kestern Communications Group (also collects email addresses)

WebSnake (Win 95/NT, \$29, free demo) from Anawaye

Shop bots

Acses Bookfinder: Shop for books from 20 online bookstores

Bargainbot: Shop for books at multiple online bookstores

Bargain Finder: Shop for CDs at a number of online music outlets

COMPUTERS.COM
BUILDER.COM
GAMECENTER.COM
DOWNLOAD.COM
SHAREWARE.COM
BROWSERS.COM
SEARCH.COM
SHOPPER.COM
CAREER CENTER
Snap!

BidFind: Shop for auction items from more than 50 online auction houses

BottomDollar: Shop for books, music, computer gear, toys and more

Excite Shopping Channel: Shop for computer gear, toys, gourmet coffee, garden equipment, and more

MX Bookfinder: Shop for books at a number of independently owned online bookstores

Chat bots

Ask Jeeves: Web-based bot that links you to answers about movies, literature, history, science, and more

<u>DonLive</u>: Comes with standalone chat software (Win 95/NT, Mac; \$15; free demo); replies to queries with content from *MacWeek* columnist Don Crabb's articles

<u>Eliza</u>: The first chat bot ever written (now on the Web); plays the role of a Rogerian psychotherapist

Erin: Web-based, a virtual bartender bot

Julia: Telnet-based, an animal-loving bot

<u>The Milk Mystic</u>: Web-based bot that answers all your milk-related questions

<u>PC Therapist</u>: Standalone chat bot (DOS, Win 3.x, or Win 95/NT; \$65) that learns from past conversations; PC Professor and PC Politician are also available

SEPO: Now on the Web, SEPO remembers and can build on previous conversations you've had with it; MegaHAL and HeX are similar bots at the site

Shallow Red: Web-based bot that answers questions about its creator, Neuromedia

TIPS: Telnet-based, answers questions about sex

Other bots

<u>Alexa</u>: A preference bot that runs side-by-side with your browser, noting the URLs you visit and suggesting alternatives based on its search engine and ratings of other Alexa users

<u>Firefly</u>: The first preference bot--it matches your preferences with those of other Firefly users, and uses the comparisons to make site and product recommendations

<u>Ginkgo</u>: IBM's assistant software that learns about people and processes, then makes appropriate suggestions. Unavailable by itself, Gingko works behind the scenes with applications such as Physician's Assistant, E-commerce Assistant, and E-mail assistant

Let the Broswer Work for You: A list of dozens of offline browsers, bots that automatically download pages into your cache so you can view them from your hard drive later

Phantom: A Web site indexer that helps you build a search engine for your site

Open Sesame: A preference bot that returns rated content recommendations based on where you've surfed before

Intelligent agent research

Carnegie Mellon University's Intelligent Software Agents

IBM's T.J. Watson Research Intelligent Agents Project

"Is It an Agent, or Just a Program? A Taxonomy for Autonomous Agents: A white paper by Stan Franklin and Art Graesser of the University of Memphis

Massachusetts Institute of Technology's Artificial Intelligence Laboratory

North Carolina State University's IntelliMedia Project

University of Massachusetts' Multiagent Systems Laboratory

The University of Tromso's Virtual Secretary Project

University of Washington's Internet Softbot Research

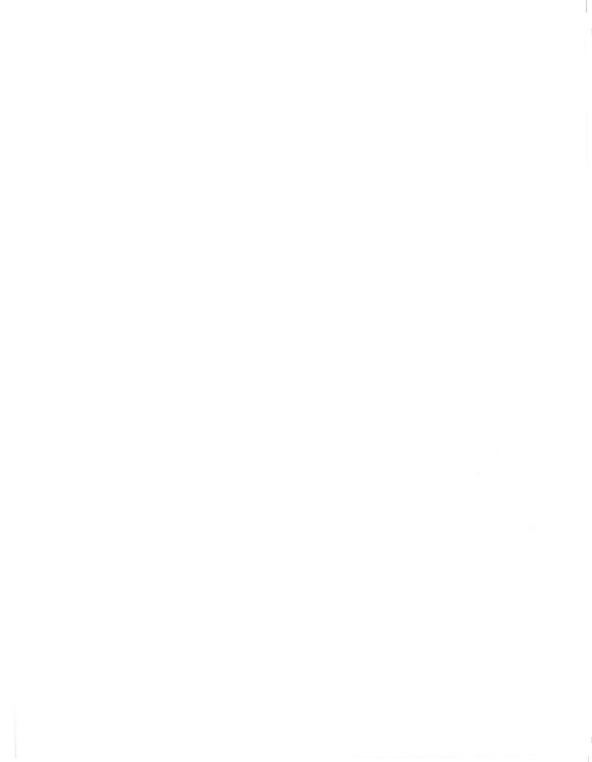
Worcester Polytechnic Institute's Artificial Intelligence Research Group



Click here for HealthAxis.

Back to top

Copyright © 1995-98 CNET, Inc. All rights reserved. Privacy polic .



NewsLinx

read all of today's web news



Backup your PC for (Automatic Virus Scans, too.)



ALEXA SURF ENGINE INTEGRATED WITH INTERNET EXPLORER



Enter your email below and receive the InternetDay newsletter. It's FREE!

Get It Free

Surf engine Alexa 2.0 can now work with Microsoft's Internet Explorer 4.0 browser via a 45K JavaScript application. The new software loads like a web page and installs in under a minute, according to Alexa Internet president and CEO Brewster Kahle. Web users then carry on as usual.

Alexa appears in a frame at the bottom of their browser, feeding them stats and information about the pages they are visiting, suggesting related links and offering lost files from its archives. "We're the only Out-Of-Print web server!" says Kahle. "We're not like a portal site," he explains, "we're for when you find yourself out of the block, asking yourself. Am I where I want to be?" He says he wants to raise the web from a medium to a literature. Some of Alexa's fans have been similarly high-falutin' in their praise, Feedmag's Steven Johnson writing that: "Shifts like these can seem minor when you first encounter them, but if other software designers begin to emulate them, they could have a profound effect on the larger web ecology."

The IE announcement, though, is less about paradigm shifts than it is about browser wars. Alexa's related links are also available through Netscape's Navigator browser (CI No 3,422), but Kahle emphasises that: "IE has the full-featured Alexa. We find it a much better integration." Alexa's site stats are derived from its massive 12 Terabyte archive of web sites and usage patterns. That infrastructure is funded by advertising, and as Kahle points out: "We can do very targeted ads.

Advertisers love it because they can advertise more or less on the competitor's site. It benefits users too because hey, you want to know what else is out there, right?" After two years in business Alexa remains privately held, with a staff head count of 35. The name is short for the Library of Alexandria, and we all know how that ended. "Yeah, but it lasted 500 years, "Kahle chuckles. "If we can last 500 years, that'll be fine."

Article provided by <u>Computergram</u>. <u>Comptergram</u> is the premier online provider of strategic IT information services to the financial, business and IT sectors. To see a sample of its subscription based service <u>click</u> here.



All of today's internet related news in one place! NewsLinx Web News is like no other web site. Check it out today!



NewsLinx | thanks for visiting of the large back words

Interested in advertising? Call us at (606) 245-1376.

Copyright © 1996-1998 NewsLinx, Inc. All rights reserved.





Alexa 2.0 for Explorer 4 Released

From <u>The Search Engine Report</u> July 1, 1998

When I last reviewed *Alexa*, I found it a remarkable product. The latest release for Internet Explorer 4 makes it even easier to begin using this useful tool.

The first advantage is the incredibly small size: 45K. It takes longer to load some web pages than this program, which previously was a 900K download.

The second plus is that the *Alexa* toolbar now floats within the main browser window, at the bottom of the screen. This makes it far more useable than when it floated outside the browser

From the toolbar, you can continue to select from the main *Alexa* options, slightly renamed from the older version. "Stats" provides interesting statistics about the web page you are viewing. "Links" suggests web sites with content similar to the page you are viewing.

Selecting either of these causes a new pane to open in the browser, to the left of the page displayed. The pane conveniently displays stats or link information.

About the only drawback is for those who like to open multiple windows. If you turn *Alexa* off during a session, then open a new window, the *Alexa* toolbar returns. You must close it again in each new window. This is annoying for me, because I constantly open new windows. For others, it may not be a problem. A fix is promised for the future.

Alexa 1.4 remains available for those using Netscape browsers or Internet Explorer 3.

Alexa 2.0 for IE4 http://www.alexa.com/ie40/

Alexa 1.4 http://www.alexa.com/download/

Alexa: Searching Serendipity And More
The Search Engine Report, Jan. 9, 1998
http://searchenginewatch.com/sereport/9801-alexa.html

A longer review about Alexa, discussion in detail how the tool works.

5

POWER USER

John McCormick

Here's where to find the best ways to find anything on the Web



Foster Internet connections make a difference for serious Web searches, but software helpers can do better and are easier to acquire and install than, say, an Integrated Services Digital Network link.

If you have to wait furever to get in hot links, try a browser accelerator. These handy utilities store locally the pages you most recently visited, but their best feature is preloading pages

Browser accelerators copy to your PC's hard drive or memory the pages for links on a Web page while you're still reading it. How much of a hoost you get depends on how fast you read, how many links the page has, and whether the software downloads the link you want before m after you click on it.

A go-between

Most accelerators operate us proxy servers, inserting themselves between your Microsoft Windows browser and the Internet. You might shudder at the thought of aduling yet another software layer, and with good reason. Proxy servers instrudence new bags, require configuration and support, and might make your system erash more offer.

Even so, Go Ahead Got II from Go Ahead Software Inc. of Redmond, Wash... is a nouproxy-server accelerator with Dos of performance-enhancing features. Read whout it at http://www.goahead.com

Go Ahead Got It perloads pages you use it requently as well as other pages you specify More importantly, it lets you know when such a page has changed Other accelerators just speed up your views of old data.

My favorite search engine is Yahoo, but others have different strengths. Alta-vistar, Lycos, WebCrawler, Excite and Infoseck are general search engines, and there are country, and topic-specific search sizes, too.

For serious research, try http://www isleuth.com/ The Internet Sleuth site lets you search general search sites simultaneously or choose among 3,000 others.

This one site has thousands of categories, each of which can connect to multiple databases.

fipic dutubases.

For example, the Aris & Humanities
Lategory covers architecture, art, geneulogy, history, humanities, literature, performing arts and subcategories.

Under government, there are far too many agencies and entegories to list, each letting you search multiple databases simultaneously.

Perhaps you're a beginner and can't decide where to enter or how to get see POWER USER Page 48

8

Antives to Explorer, Navigator ork for beginners, experts alike

POWER USER from Page 46 around once you're on the Web. There are casier alternatives to the ubiquitous Microsoft Internet Explorer and Netscape Navigator browsers, but you will need to use

Navigator browsers, but you will need to us one of them at least once to download an alternative browser unless you can talk someone else into doing it for you

Check out http://www.neoplanet.com for NeoPlanet, a full-blown alternative perfect for novice or occasional users. NeoPlanet isn't a true browser, it simply puts a new interface on linternet Explorer to hide the most frustrating aspects.

Agency administrators who load Neo-Planet on their new users' PCs will spend a lot less time in support and training

Another alternative Web navigator suitable for intermediate or advanced users is Alexa, whith the word alexa com, Instead of replacing the Explorer interface, Alexa's tool bar gives more detailed information about sites gleaned from Alexa's database.

It has an online encyclopedia, dictionary,

thesaurus and a tool to help users reach "404 Not Found" sites they con't reach in the normal way.

The last feature relies on Alexa's archive of more than 500,000 Web sites. It isn't infallible, but often a desired page is only temporarily unavailable because a server went down or the periodic site-locator upload file left it out.

Sometimes a vice no longer exists, of course but all the user wants is to read some information from the first screen. In both cases, the Alexa Archive can be a lifesaver. The tool har takes up screen noom, but you can collapse it or close it selectively.

Even if you must download the L6M ALEXASETUP14N EXE file over a slow dial-up connection, the utility is worth 10 minutes to install for serious surfing

Iohn McCormick, a free-lance writer and computer consultant, has been working with computers since the early 1960s. E-mail him at powerust @peins com

Find It ONLINE

Share The Wares

Some of the best apples in the online orchard are the free (or free to try) programs available for download. Each month we'll feature highlights from our pickings.



Alexa provides the inside scoop on the sites you visit.

Alexa. This freeware program is best described as a browser enhancer. After you download (http://www.alexa.com) and install the software (which works with Win95 or NT, and both Netscape Navigator and Microsoft Internet Explorer), a floating bar hangs around to provide additional information about the sites you visit.

This bar can tell you how fast a site's connection is, how often it's updated, and what other Alexa users thought of it. You also can cast a vote about a favorite site (or one you can't stand). Alexa houses a variety of cached, or temporarily stored, Web pages, so if a popular page is busy, Alexa can reroute you to its stored copy.

Alexa also features a one-on-one chat service that lets you conduct real-time conversations with other users. If you're looking to super-charge your browser, this free software makes an excellent addition.

Wordware. If it's performance-enhancing products you seek, try AMF Software's Wordware. This shareware add-on turns Microsoft Word into a fully functioning personal information manager. With versions available for Word 6.0, Word 7.0, and Word 97 (and systems running at least Windows 3.x), you can access all your contacts, organize and protect your documents, and even play audio CDs from the Word toolbar.

Wordware also expands Word's Internet capabilities, letting you manage all your Web site addresses and bookmarks from within the word processor. We'd like to avoid sounding like an infomercial, but there's more! Wordware also automates Word's faxing abilities, lets you create business cards, and provides project

The software is free to try (from http://www.amfsoftware .com/word/wordware.html), but it must be registered for \$39.95 for continued use.

Quick Fixes

ost of today's software can benefit from a few updates, patches, and add-ons downloaded from the Internet. This month we focus on Dial-up Networking (DUN), the common Internet connection utility.

DUN Upgrade 1.2

If you're using an Internet service provider (ISP) for your 'Net connection and Windows 95 (Win95) as your operating system, you're most likely using DUN as your connection tool. A few updates out there will enhance DUN's abilities. The DUN unorade 1.2 improves the interface and gives you hands-free dialing. (NOTE: You don't need this upgrade if you re already running

http://backoffice.microsoft.com/ downtrial/moreinfo/win95 ges.qtoc

Windows Socket Update

The Windows Socket Update 2.0 improves DUN's ability to use Transmission Control Protocol Internet Protocol (TCP/IP, the standard Internet protocol that lets computers communicate) and resolves several performance issues with the Microsoft Internet Explorer 4.0 World Wide Web browser.

http://www.download.com/PC. Result/TitleDetail, 0.4, 0-45786.501000.html for search for "windows socket update" at http://www.download.com).

Try It Online

The World Wide Web is about more than just data; it offers a chance to get involved and interact online. Check here for sites that let you get the most from the Web.

Versions

http://www.versions.com

The Versions Web site can help you keep track of the software installed on your system. Sign up for free E-mail updates about the programs that most interest you. You just enter your E-mail address and follow steps to enter The Versions Web site will keep your operating system and a variety of software categories (such as Utilities or Graphics) you use. Versions promises not to send any junk E-mail, so you'll receive only the message about updates, and you can cancel any time.

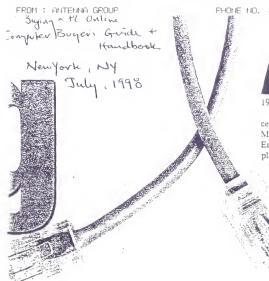
You'll receive notification every time a new release or update is available in your categories. With the free Basic service, you'll also be able to select three specific products that Versions will track for you. The extended service



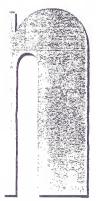
track of the updates available for software you own.

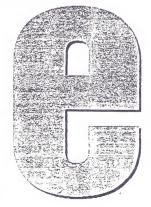
costs \$18 a year, but if you purchase an item from the Cirrus Online Store (http://www.pan galactic.com/store_home72.html), you'll get the extended service

You also can search for specific products at the Versions site. The database contains more than 50,000 products. Just enter a name and click Search.



You can buy it direct from a Dell, or from a manufacturer, a retailer, or a CPA in Kalamazoo. If you address such consumer concerns as warranties, return policies, shipping, and support, you should emerge that happiest of online creatures—the satisfied buyer.





by David Drucker

s we creep closer to the millenium in that technology showcase a.k.a. these United States, we're moving steadily closer to the world vision of E. M. Forster in his 1909 epic, The Machine Stops.

In Forster's forecast, we all inhabit individual hexagonal cells, which we rarely leave, dependent as we are upon The Machine for our food, communications, and spiritual comfort. Each cell is outfitted with telephone equipment and an "optic plate," analogous to a computer monitor. Most human interaction takes place via a global web that's part of the Machine, and people rarely meet face to face.

It sounds very much like the life of today's Netizen. Hungry? Order a pizza online. Lonesome? Enter a chat room and find companionship. Want to buy something? You can purchase almost anything from your friendly, neighborhood Webmerchant without leaving your home.

We're not yet prepared to endorse an Internet-centric way of life, but it would be folly to deny the Web's impact on one of life's most mundane chores—shopping. Although the continuing proliferation of megastores and mini-malls would seem to indicate otherwise, conventional storefront retailing is under assault.

A Little History

This phenomenon began with mail-order catalogs, the roots of which go back more than a century to companies like Sears Roebuck. Mail-order companies made the goods of the world available to everyone, no matter where they lived. As we became used to the convenience of shopping from (as the ads say) the comfort of our homes, it was only natural that catalogs were joined by television.

First it was infomercials, then round-the-clock home-shopping channels, and then came the Internet, which from a consumer standpoint is as ideal a shopping medium as anyone could imagine.

With time-constrained printed catalogs and television, you have to wait until the right message arrives and, as the pitchmensay, "Act now." Shopping on the Internet, by contrast, puts you, the buyer, in the driver's seat. Granted, banner advertising is part-and-parcel of today's Web-surfing experience, but someone looking for a specific product or product type, be it a basket of fruit or a Caterpillar D4-bulldozer, controls the process.

If you're looking for apples or earthmovers, this article won't provide much product-specific advice. But in your search for computer equipment, the Internet is a good place to look, and we can point you in the right direction.

Going online to buy a PC is a broad enough goal to provide several avenues of approach. We'll discuss the various alternatives, and see what each has to offer. First, it's worth noting the wooderful irony inherent in the entire concept. To buy a computer online, you must first have access to a computer. Actually, this is a blessing in disguise, ensuring that those who use the Internet as a purchasing tool have enough basic computer knowledge and experience to make an educated choice.

Based on that assumption, the primary question then be-

7.

BUYING A PC ONLINE

comes which of the myriad possible online vendors, and even vendor types, to choose. Your choice will depend on the type of computer you want, the level of pre- and post-sale support you will require, and various financial considerations. These include payment method, refund potential, and security considerations. We'll discuss all of those factors, and more.

Who's Selling Online?

The more salient question might be, "Who's not selling online?" The answer, "Hardly anyone." We have three primary online retail channels. The first consists of direct-to-consumer manufacturers, typified by companies like Dell and Gateway.

Most of the products sold by these vendors bear the companies' own logos. The exceptions are generally limited to peripherals—printers, scanners, software, etc.—that help to facilitate the one-stop-shopping experience.

Some direct manufacturers rely upon online and mail/phone ordering as their means of distribution. Others employ them as two of several channels, which may also include conventional dealers and corporate-level sales reps.



Computer Discount Warehouse (CDW) is among the best of the online retailers when it comes to service and support, with areas for downloading drivers, online documentation for troubleshooting, and links to manufacturers' sites.

The second channel is made up of retailers whose online operationed try original arranges from set the blooms continued and Montgomery Ward. Like those pioneers, they offer a wide range of merchandise originating from numerous manufacturers; the larger retailers might also offer proprietary systems.

Some online retailers have added an Internet presence to an existing business that might include catalog and/or storefront operations. Others exist solely on the Internet. In at least one instance—<u>Egghead Software</u>—the tremendous success of the company's online operation contributed to the decision to abandon its storefront arena entirely.

Neither of these conventional channels is necessarily limited to conventional buying protocols. While the majority of sales are likely to be brand-new merchandise, with a non-negotiable price determined by the vendor, that's not the only transaction you can expect to find. Many vendors, and even some manufacturers, offer refurbished equipment at a discount: some vendors even allow the buyer to set the price—sort of—by setting up online auctions of surplus merchandise. We'll consider some of

these alternatives later, but first, let's take a look at the third

Computer users on the cutting edge—who replace their systems as often as they can find a reasonable excuse—are often in the interesting position of having too much equipment. In the past, people with something to sell might tack notices to bulletin boards about town or advertise in their local paper.

The advent of the Internet hasn't rendered such tactics obsolere, but many savvy traders have begun to take advantage of its ability to reach large numbers of potential buyers very quickly. In turn, savvy entrepreneurs have established online auctions, with (mostly) private parties offering single items to (mostly) other private parties. The success of these ventures has, in turn.

inspired the creation of sites where the buyer deals directly with the online auction house.

The Manufacturer-to-You Channel

Companies that manufacture their own systems are in an ideal position to customize machines to meet the needs of each customer. Thus, if you want a Pentium II system with a buge hard disk, but don't much care about high-end video or, indeed, multimedia at all, buying directly from the manufacturer makes a great deal of sense.

Until the advent of the Internet, playing the "What-if?" game—determining what impact various configuration options would have on the price of a system—was a time-consuming process. The best of the online sites have changed that situation dramatically.

Today, the savvy consumer can start with a basic platform—a 333-MHz Pentium II, for example—and using drop-down menus, can choose from various options in several different component catego-

ries. The price impact of each choice is often listed right on the menu, so you can see how much more or less a faster or slower prodessorhwilderised configuration is selected, clicking on a "calculate price" button will return a page that lists your personally configured system and its selling price. If you've added a few too many options and that price turns out to be a bit more than you expected, the process can be repeated ad infinitum until the price and the system are exactly what you want.

Of course, it might very well be that a preconfigured system is ideal for your needs. Being open to that possibility increases the field of manufacturers from which to choose, as not all of them offer built-to-order systems.

An off-the-shelf model might also save you a few bucks. Fixed configurations allow a manufacturer to take advantage of economies of scale, which can reduce a system's cost by a worthwhile amount. The other side of that same coin also works to the consumer's advantage. If a manufacturer overestimates demand for a given system, his resulting overstock is likely to be sharply discounted to move it out quickly. Such systems are sometimes offered as "Internet Specials," although we suspect that a phone-in customer would often be given the

BUYING A PC ONLINE

same opportunity for savings.

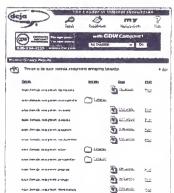
Many of the better manufacturer-sponsored sites offer far more than simply a place to buy a computer. Some provide comprehensive support facilities, with FAQ (Frequently Asked

Question) files, interactive troubleshooting systems, downloadable files and documents, and more. Since you may have an ongoing relationship with the company that sells you a computer, it makes sense to base some of the purchasing decision on the ease with which you can maintain that relationship. Granted, some computer users will always prefer the warmand-fuzzy aspect of person-to-person tech support. Others might welcome the opportunity to seek out a quick answer on the company's Web site.

To recap, within the manufacturer-to-you channel, you'll find three distinct types of basic transaction: custom configuration, off-the-shelf, and closeout. In the first two instances, difference in warranty and service policies are unlikely. A deeply discounted closeout, however, might carry a shorter warranty. However, this isn't necessarily so. We've encoungreted manufacturer closeouts that offered an extended warranty to sweeten the deal.

Earlier on, we mentioned Dell and Gateway as frenetic being typical of the companies that sell direct to the companies. In fact, they're not typical, but they could be templates for any company wishing to set up an online store. We say this not because either company does any single thing so well, but because they offer an excellent combination of comprehensive content and ease of use. Beyond that, both companies had established reputations as direct merchants before the advent of online commerce. They simply extended their policies to encompass the new channel.

While Dell and Gateway arc two of the most established and reputable online vendors, they're by no means the only game in town, or even the only type of game. Many smaller manufacturers maintain online stores, and if these sites aren't as elaborate as those of the major players, they still provide ample opportunity for



To find out what other consumers think of a particular manufacturer or retail outlet's service and products, visit the archived newsgroups at Deja News, a searchable database of Usenet topics.

you to secure good products at attractive prices.

Nor should you overlook large, well-established manufacturers that traditionally have sold goods through more conventional channels, such as storefront dealers and catalog



Like its televised counterpart, the Home Shopping Network, the Internet Shopping Network offers a wide range of products at discount prices. ISN also offers themed specials, though it is less frenetic than the TV version.

storefront dealers and catalog houses. Compaq and NEC are examples. They, too, have begun to test the online/direct waters, and they are finding them inviting. So, when setting out to compare manufacturers' wares, by all means log onto the sites of the obvious choices; just be sure to cast your net wide enough to encompass some of the less conspicuous alternatives. You might be pleasantly surprised.

To find a manufacturer's Web site, the first step is simply flank the company name with "http://www." to the left and "com" to the right—though Web browsers allow you to dispense with the "http://"

part of an address. Thus, Dell and Gateway will be found at http://www.gateway.com, respectively. Any company not accessible by that expedient may readily be tracked down using any of the many splendid Internet search engines, such as Yahoo (http://www.yahoo.com), Alta Vista (http://www.altavista.digital.com), and InfoScek (http://www.infoseek.com).

The Virtual Mall

The American penchant for browsing through a catalog and placing an order goes back more than 100 years. Of the several pounds of catalogs that you probably receive each month, a good percentage is likely to come from one of the many computer merchants that have made life so tough for the mom-and-pop byte shops.

Mail-order houses—such as CDW, The PC Zone, PC Connection, and MicroWare-house, to name just those whose catalogs arrived in our offices today—feature systems, peripherals, accessories, et al from a broad selection of manufacturers. As such, they are the stay-at-home analog of so-called superstores like CompUSA.

Like CompUSA, many of these catalog houses have extended their scope to encompass the Internet. Indeed, all four of the companies we just mentioned maintain enormous Web sites at http://www.cdw.com, http://www.pczone.com, http://www.pczone.com, and http://www.warehouse.com, respectively.

In addition to the many catalog-cum-online merchants, the Virtual Mall includes several online-only companies. Among the better-known names in this category are the Internet Shopping Network (ISN) and NECX, found at http://www.isn.com and http://www.necx.com. ISN is a part of the vast Home

BUYING A PC ONLIN

Shopping Network family. It differs from its TV-based cousin in that the products offered via the Internet are described in more detail, and are offered without any "Better ring in soon, before we run out" hoopla.

The retail division of NECX, called The Home & Office Computer Center, is described by the company as "the world's most comprehensive online source for computer products, featuring over 30.000 products—every one of them available online."

NECX is interesting for its strong consumer orientation. It features full-color product photos, comprehensive descriptions and specifications, product reviews containing both positive and negative comments (including those from customers), and side-by-side comparisons of competing products. It also quotes the prices asked by competing vendors for the same products, even if the price happens to be lower than NECX is asking.

In addition to its first-line channel, NECX operates an Outlet Center where you can find even greater bargains. The products offered in the Outlet Center are end-of-life models, open-box units, demonstration models, and other exceptional deals that the company's buyers have been able to obtain. We found, by way of example, an open-box Digital HiNote 735 laptop, with a 233-MHz MMX Pentium processor, 32MB of RAM, a 4GB hard drive, a 20X CD-ROM, and a 13.3-inch XGA TFT screen selling for \$2,299.

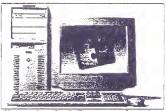
That Nebulous Third Channel

Let's say your next-door neighbor was about to buy his kid a new computer as a back-to-school present, and he offered you the old one—maybe a 200-MHz Pentium—at a rock-bottom price. You'd probably leap on it with claws fully extended. That's because nothing is inherently wrong with one person selling a product to another. Taken a step further, you might answer a classified ad in the paper, drive to the other side of town, and participate in a similar transaction with a stranser.

Now, let's suppose that the same stranger lives halfway across the country, and will sell that computer to you if you're the highest bidder in an auction that takes place online, over the course of several days. That's the premise behind Ebay's Web-

based auction, billed as "the leading person-toperson auction community on the Web." Since its inception, Ebay has served as a medium for thousands of one-onone sales, and in the main, the participants seem to be a happy bunch.

The Ebay auction house is divided into several categories, and a reasonably powerful scarch engine makes it possible to find the type



You can buy this Dell system configured any way you want at the company's site. The interface allows you to quickly see how the final price will be affected by the addition of a bigger monitor, more RAM, or a faster modern.

Profest Yourself

The idea of clicking an onscreen button and thereby authorizing a stranger to extract hundreds—or thousands—of dollars from your credit card can be daunting. But having done so on multiple occasions, we can ofter a few simple youldelines to make that process somewhat less frightening, and can help you to gother enough information to enter into an online transaction with confidence.

- Try to deal with vendors who have been recommended by people you know and/ or trust. If your neighbor or colleague has had good service from Computers 'R' Us, it's likely that you will, too.
- If you can't get a personal recommendation, go online and lurk in some of the newsgroups related to the product you're interested in. You can even post a query in those groups, and look for feedback.
- The AltaVista search engine can search Usenet as well as the Web, if you feel like searching from one place. Enter a few key words and it's probable that you'll find messages that will help you narrow down the field.
- Print all of the pages relevant to your purchase, and keep them in a file with the
 rest of the papers related to the sale. In case there are any disagreements about
 return policies, missing items, warranty, or any other aspect of the transaction,
 have hard documentation to back up any (drims.

Always use a major credit card when making anline (or any direct) purchases. It offers proof of purchase and the credit-card company should back you up in the event of a dispute with the vendor.

- Don't send your credit cord information via a site that's not secure. Bath Netscape Navigator and Microsoft Internet Explorer support SSL transactions, and there's no reason to patronize a vendor who doesn't offer that protection.
- Take advantage of ratings services like Bizrate (op. cit) and the U.S. Consumer Protection Agency (http://wsconsumerprotectionag.org/services.htm).
 The latter investigates online fraud, and provides information to the consumer about companies to avoid.

of product desired. Each is listed on its own page, with a description provided by the seller. Creative sellers often include pictures with the description, along with links to (for example) the manufacturer's site.

Each item's page also includes links that bring up a listing of the seller's other auctions, reveals any comments buyers have made about that seller, and allows a potential buyer to send an c-mail to the seller. While many of the sellers are individuals,

others are dealers who find that the auction is an easy way to reach a large potential customer base.

Aside from taking a very small piece of the action, Ebay doesn't get involved in the transaction. Once a successful final bid has been entered, it's up to the buyer and seller to make contact and complete the transaction. On the face of it, this sounds like a path fraught with peril for the buyer. Therefore, it's up to the buyer to determine how real that peril is, and deal with it. One way is to see if the seller has inspired complaints from previous customers. The Ebay auction can be found at http://pages.ebay.com/awindex.html.

Price Isn't Everything

When "auditioning" an online retailer, the product's price is only one factor that should influence your decision.

BUYING A PC ONLIN

How much will the vendor charge to ship the product to you—ideally, it's clearly posted with the product. Also, do you pay a state sales tax?

As anyone who has purchased CDs from a record club knows all too well, shipping can be a real wild card, so don't take anything for granted. We recently purchased a notebook computer direct from a manufacturer's Web site, and paid \$45 for second-day FedEx delivery. The shipping charge quoted for the HiNote laptop described earlier was less than \$10. Depending

Advantage

CHARRETTO SE

Quick Search!

Many conventional mail-order houses have

advantage of the unique properties of the

Internet. At Micro Warehouse, a pop-up

put their catalogs online, some taking

on the distances involved, it also might arrive in two days. It could pay to find the vendor's warehouse location, and choose your shipping method accordingly.

Some buyers base their decision exclusively on total price. Others take into consideration such factors as the ease with which the purchase is made, the vendor's after-sale support, and the procedure to follow when a problem occurs.

a problem occurs.

The Web site's structure can help or hinder your search in a big way. If you're not looking for an exact make and model, but for a product that's within certain specification boundaries, some sites will be easier to navigate than others. In fact, some vendors will allow you to search for just those products. The site's response time, its readability, and annoying blinking banners are just a few factors that can influence your purchase decision.

After-sale support policies will differ dramatically among manufacturers and among retailers. If you're buying directly from the manufacturer, the warranty and support policies should be clearly stated on the Web site.

When dealing with a retailer, you can have more variety. In most cases—but not all, so be sure to check—you'll be covered by the manufacturer's warranty. In the case of some problems, however, you might find it more convenient to deal directly with the vendor. If a product fails within a few weeks of its arrival, what would you rather hear from the retailer? "No problem, we'll send you a new one," or "Call the manufacturer, we just sell the stuff."

Also, consider the very real possibility that your machine works fine, but for some reason (the color, the pitch of the fan noise, whatever), it just doesn't make you happy. That's where the vendor's return policy comes into play. Some vendors offer a money-back guarantee that can apply for five to 30 days. During that time, you might be able to return the product with no questions asked, or you might have to answer a question or two.

If the product isn't defective, and the reason for your return is that you just changed your mind, you may be hit with a restocking fee, maybe as high as 20 percent of the purchase price, plus shipping. When you're spending \$2,000 on a computer, the retailer with the lowest price might not look so attractive if you decide to return the unit and wind up paying as much as \$400 for the privilege.

Beyond return policies, you might want to have a single source of support for a variety of products from different manu-

facturers. CDW is especially good. CDW's Web site has a download area for drivers, fixes, and add-ons, a knowledge base that offers extensive documenation to assist in all kinds of troubleshooting, plus links to many manufacturers' home sites. In addition, CDW provides its customers with lifetime toll-free tech support.

What About Credit-Card Fraud?

A great deal has been said about the possibility that someone intercepts an Internet shopper's credit card information and, so to speak, goes to town. While it always pays to be cautious, this particular fear is largely unfounded. Phone-based transactions, in which we read our credit-card number to a perfect stranger, and even in-person transactions, where the number is accompanied by a signature, hold at least as much fraud potential. On the other hand, the Internet offers demonstrably secure safeguards against credit-card theft.

Many online vendors protect your credit-card information with encryption technology called SSL (Secure Socket Layer). It's effective enough to allay the fears of those in a position to understand the technology, and its only real drawback is that it slows the site's response. To address this issue, most vendors switch to SSL only when you actually place your order.

(Alternatively, they offer the means for you to select either secured or unsecured operation at any time.)

Those who remain unconvinced, and would rather read their card number to a stranger, are generally given the option of creating the order while connected to the Web site and then calling a toll-free num-



Gateway's good reputation as a direct merchant was further enhanced when it entered the online-shopping arena. Its well-designed Web site is comprehensive and easy to use, which makes for pleasant and efficient shopping.

BUYING A PC ONLINE

ber to complete the transaction.

Fraud isn't the only possible pitfall with credit cards. Although major players rarely do it, a vendor may charge your card the day you place the order, even if the item isn't in stock and won't ship for several weeks. In effect, this is an interest-free loan to the vendor, who probably won't even bother to thank you for the use of your money.

Still, with all of the real or imagined potential for credit-based problems, it remains by far the best way to handle online purchases at the personal level. As long as you use a major credit card to make your purchase, the credit-card company will initially be on your side in the event of a disputed charge. Depending on the dispute's nature, you might have to jump through a minor hoop or two, but if your complaint is even moderately justified, the credit-card company will intervene on your behalf.

Finding the Good Guys

Time was, a customer who felt mistreated by a retailer might write an indignant letter to the Better Business Bureau. The Bureau, for its part, would keep a record of these complaints. Someone considering the purchase of a widget from Main Street Widgets could call the BBB and ask whether that company's record merited their patronage. The notion of finding out how well a business has treated its previous customers has made the transition into the online community, and it still works. Post a question about a given vendor on the appropriate Usenet newsgroup and you're almost certain to get a response—or several. A good way to find a particular newsgroup is to perform a search at http://www.dejanews.com.

A more organized system of rating online vendors is provided by Binary Compass Enterprises, which provides vendors

and consumers with a free service called BizRate. When a vendor signs on with BizRate, its online customers can respond to a questionnaire once they've made a purchase. The survey covers ten dimensions of customer serviceprice, product selection, product information, Web-site navigation, aesthetics, product availability, on-time delivery, customer support, return policies, and customer loyalty. (Some factors assume experience with that ven-



BizRate from Binary Compass Enterprises is a helpful tool for both vendors and consumers. The free service surveys customers after they've bought products and ranks companies based upon the responses in a variety of categories. dor, but that's covered in the questions' wording.)

The tabulated results of these surveys are posted at the BizRare Web site (http://www.bizrate.com) for all to see. In addition to simply asking questions and reporting the answers, BizRate's staff visits and shops on the sites of its subscribing merchants to confirm continuity of quality. The BizRate Guide cur-



and shops on the sites of its subscribing merchants to confirm continuity of quality. The BizRate Guide cur-

rently rates more than 350 online merchants, and has plans to expand that roster considerably.

Another potentially useful, user-based rating service is part of a program called Alexa. Available as a free download (http:// www.alexa.com), it runs concurrently with either Netscape Navigator or Microsoft Internet Explorer. Each time you log onto a site, the Alexa information bar provides data about that site. The data's nature and quantity will depend upon the site being visited, but it can include any publicly available reviews and rating, whether it's been endorsed for electronic commerce, and how well other Alexa users like it.

This last bit is determined by simply tabulating the like/don't like votes that users east while at the site, so it's not necessarily a scientific sampling. Still, if 300 Web-surfers voted "Nay" and only 50 clicked on "Yea," there might be a reason. Beyond information about the current site, Alexa provides where-to-gonext advice. If you're at one retailer's site, Alexa will provide links to other sites that sell similar merchandise.

Summing Up

Buying a computer online is much the same as buying one from a store or a printed catalog. You have to strike the best balance among factors like price, product, convenience, service, and security, and with all of those factors in mind, make a choice.

If you're uncomfortable with the notion of transactions that don't end with the product on its way home in the trunk of your car, then online shopping isn't for you. Nor. for that matter, is ordering from a catalog. But if you want the widest possible selection and the greatest number of options, shopping online is like having a mile-high stack of catalogs, with no worry about overloading the recycling bin. As long as you take modest precautions, and make certain to read all of the proverbial fine print before pressing the Order Now button, your online purchase can be as satisfying as any that involves the car or the telephone.

Calendar

July

26.30 Midison, Wisconsin (Mononu Terrace). The Fifteenth National Conference on Artificial Intelligence (AAAI-98) and the Tenth Conference on Innovative Applications of Artificial Intelligence (IAAI-98), sponsored by the American Association for Artificial Intelligence, features presentations on such topics as "Structured Probabilistic Models: Bayesian Networks and Beyond," "Experiments in Musical Intelligence." and 'Modeling Satisfaction and Satisfactory Modeling: Modeling Problems So. Constraint Engines Can Solve Them The AAAI-98 Exhibition will span 3 days and will comprise a host of events dosigned to showcase current products, research and annlications in Al. Also, the AAAI Tutorial Forum leasures 16 4-hour tutorials that provide an opportunity for researchers to spend 2 days freely exploring advances in disciplines outside their normal toxuses

Contact: AAAI-98/IAAI-98, 445 Burgess Drive, Menlo Park, CA 94025-3442, 650/328-3123, Fax: 650/321-4457; http://www.aaai.org.

August

26-28: Arlington, Virginia (Crystal Gateway Marriott Hotel). Interactive Multimedia '98, sponsored by the Society for Applied Learning Technology (SALT), will focus on topics such as telecommunucations and distance learning, Internet applications: interactive instruction materrals development, legal issues in multimedia programs, industrial and management training, developing and implementing Weh-based instructional systems, electronic performance support systems, health-care sciences, innovative technology for multimedia distance learning systems, and public and university educstion

Contact: SALT, 50 Culpeper Street, Warrenton, VA 20186. 540/347-0055; Fax: 540/349-3169; program@salt.org.

30-September 1: Santa Barbara, Californie (Fess Parker's Doubletree Resort). DVD PRO: Making It Happen, sponsoied by EMedia Professional (http:// www.ecomworld.com) magazine and Online, Inc., is a follow-up conference to the first DVD Professional Conference held this past Pebruary. According to the company, "Making It Happen," is a conference theme that means more thun technology updates on tools and services to make DVD titles. DVD PRO is about new methods and techniques for creating DVD content. It's about distribution strategies, licensing issues, delivery platforms, repurposing content, and data storage transmons. It's about DVD capabilities, challenges, and markets The conference is genred for developers, pub-

lishers, executives, and corporate end users who need to know how to ndopl DVI. DVD PRO is adding numerous single-speaker seminars on content development and creative applications of DVD technology.

Contact: Online, Inc., Wilton, CT, 203/ 761-1466; http://www.onlineinc.com/ dydpro.

September

1-3. Boston (Hynes Convention Center) eBusiness World, an all-new event pre sainted by DCI and billed as a refocused Internet Expo, promises to give attendees the teclinology, tools, and expert guidance needed to get their companies up to speed in the competitive, fast-changing new electronic marketplace. Topics to be covered include security, collaboration, messaging, e-commerce payments, supplychain management, sales force, data warehousing, and customer relations. The event is organized into six core conference tracks within two focused programs The Business Visions Program consists of hest practices in e-commerce, developing intrancis/extranets that work, and Wchenabled supply-chain automation. The Technical Implementation Program consists of security: enabling e-business to day and iomorrow. Web-enabled appliestion development for the entermise, and Internet application architectures. Contact: cBusiness World, 204 Andover Street, Andover, MA 01810. 978/470-3880, Fax 978/470-0526; ConfReg@. det com, http://www.dci.com/ebusiness.

10.11: Washington, DC: (Washington Convention Center), NetExplo Washington '98 will Cover a wird varrety of industry issues, from Web site design to economerce. The theate of the explo in 'See What's New at NEW '98. Exhibitors will include Internet service providers, online services, content prividers. Web page developers, that dware and software suppliers, and other regional and national firms offering Indirectivest.

The event will be held with the 15th annual Multi-Cont Communication Exposed and Conference for publishing and grophics professionals. Additional details and Information on how to register for the exhibits and seminars are available at the show's Web site of hitp://www.NEW.expo.com.

Contact: Geoff, Lindsay, Lindsay, Communications Group, 2032 Virginia Avenue, McLean, VA 22101-4940, 703/ 536-2100; Fax. 703/536-2101; lindsay @MulticomExpo.com.

16-18. Atlanta (Ritz-Carlton Hotel, Buckliced). The 1998 Annual Conference and Workshops of the Association for Global Strategic Information, sponsored by Infonortics Ltd, focuses on managing new technology, tools, techniques.

and factors in today's competitive intelligence and strategic information incons Session topics include adapting CI and SI to the new knowledge chyrromizent, collecting the data, in information sources, collecting the data, in array of new software tools, and personalizing and analyzing the data.

Cohiact: Infohortica Ltd, 15 Market Pisce, Tethury, Olos Ol, K BDD, U.K. 011-44-1666-505-772, Pax. 011-44-1666-503-774, conjuct@infohortics.com, http://www.infohortics.com

21-24: Denver (Colorado Convention Center) Electronic Commerce World 1798 promises to educate current and potential users of electronic commerce technology. Its theme is "Business Solutions through Technology Integration." The conference will offer 70 educational sessions, industry-leading keynote speakers, full day preconference workshops, problem-solving roundtables, and an exhibit hall. Some of the topics to be covered include automated data capture; electronic data interchange; electronic catalogs; iinancial electronic commerce, intrance/extranet; document management, imaging, and Workflow; enterprise resource planning, business-to-business clectronic commerce global electronic commerce, security, and Internet and Web based EDI. Contact: Electronic Commerce. World, 2021 Cholidge Street, Hollywood, FL 33020-2400, 888/BCOM-711, 954/ 925-5900; Pax: 954/925-7533; http://... www.econiworld.com.

October

12-14 Washington, DC (Washington Hilton & Towers). (Inline World, spunsored by Online, Inc., is a nathmat conference about how to find and use Interhet content and services. According to the announcement, libratians, Internet researchers, managers, information profesdendle and others attend the conference to hear respected searchers share their hard won experilse. This year's keynoto speaker will be Brewster Rable of Alexa Internet. The conference will offer dozens of sessions in six full fracks covering topics including practical searching, intranct development, trends and technologies, and resource management.

Contact Offline Inc. 462 Danbury Rund, Willon, CT 06897 2125, 800/248-8466; Fax: 203/761-1444: info@on Incinc com, http://www.onlineinc.com

26-29. Phispurgh (Phispurgh Hilton). The ASIS 1998 Annual Conference will examine information access and what if means in a global economy. The topics that will be discussed include the following. Who will be the information producers of tomorrow? What will be the effects of the lack of quality control exercised by arthritional publishers? What

are the social effects of global informa-

A plenury session will be given by Hol R. Varian, dean of the School of Information Management and Systems at the University of California-Berkeley His recent work has been concerned with the economies of information technology and the information economy.

Panel Sestion topics include "Advances in Social and Organizational Informatics Implications for Information Science," "Intellectual Property Hearings," "Theories of Information Science," "Intellectual Property, An Oxymoron" and "Accessing Full Text: Integrating Electronic Resources (SIG LAN)."

Contact: American Society for Information Science, 8720 Georgia Avenue Suile 201, Silver Spring, MD 20910, 301/495-0900; aux@asis.org, http://www.usis.org.

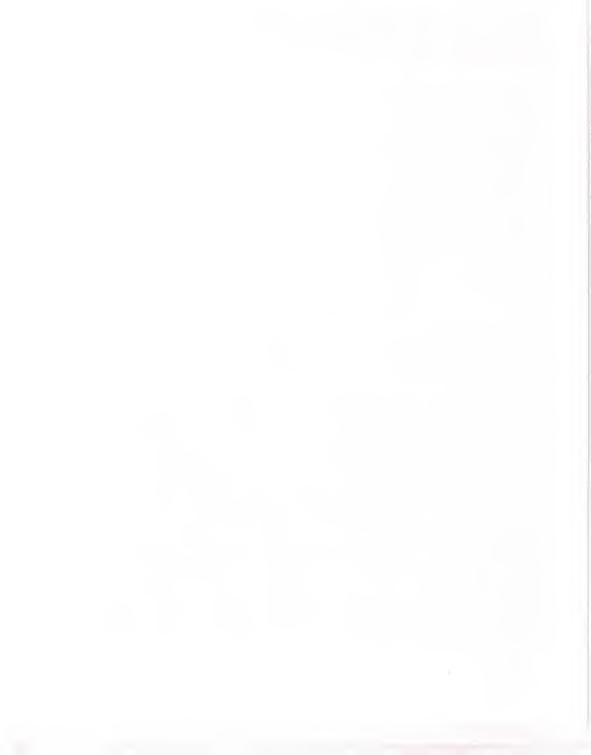
November

1-5: Montercy, California (Montercy Conference Center, Doubletree & Marrion Hotels), Internet Librarian '98 is a mixture of tending edge ideas and tools as Well as exciling new services-all focused on information professionals and internet-related technologies. It features over 100 dynamic speakers in three simultaneous tracks each day, plus 24 workshops, two evening sessions, and the new Internet @ Schools '98 conference. According to the announcement, Internet Librarian 198 covers metadata and Web tools, online and the Net, Internet and intranct content, creating Web sites, intranct case studies, managing knowledge assets, training and instruction, virtual services, digitizing resources, infrastructure, Web management, Net trends, and more. Sesslon track topics include metadata, conteni, learning, searching, Web sites, transitioning, and virtual services The exhibition hall will feature over 80 booths offering visitors a choice of products covering aspects of Internet, intranci, and itbinry technology

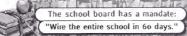
Contact Information Today, Inc., 143 Old Mailton Pike, Medford, NJ 08055-8750, 609/634-6266, Fax 609/654-4309 custory@infotoddy.com. http://www.infotoddy.com.

8-10: Weshington, DC (Willard Inter-Continental Hotel), 30th Analysis and Herofrindish Industry Association Anhinal Conference will aim to upon a window on the Industry's future. This year's theme is "Redefining Content—Pariners and Profits in the New Millennum."

Contact: Information Industry Association, Meetings Department, 1625 Massachusetts Avenue NW, Sure 7(0), Washington, DC 20036, 202/986-0280. Fax 202/638-4403, intng@inforndustry.org. http://www.inameets.com.











Alexa stats now on IE 4

NEWS.COM NEWS FIRST

Beth Lipton CNET NEWS.COM

Microsoft is keeping up with the Joneses at Netscape Communications today, adding updated technology from Alexa Internet to its Internet Explorer browser.

Alexa Internet's technology, which it calls a "surf engine," is installed into a user's browser and provides site statistics and related sites wherever she or he goes on the Web. The goal is to aid the surfer in doing research or comparison shopping, for example, the firm said.

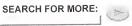
The new technology, Alexa 2.0 for IE 4.0, loads like to a Web page and can be installed in less than a minute, according to Alexa Internet. The 45K application is installed with the click of a mouse; there are no download and install procedures. Alexa 2.0 appears in the browser frame as a toolbar and displays information about the sites a user visits in the IE sidebar.

The site statistics by Alexa 2.0 include to whom the site is registered, how popular it is, how many sites link to it, and whether it is safe for e-commerce. The technology also offers a list of related sites based on other Alexa user patterns.

Netscape incorporated Alexa technology into in its upcoming Communicator 4.5 suite, as part of the "smart browsing" offerings. A "what's related" feature, developed from a partnership between Netscape and Alexa, provides a drop-down box with an automatically generated list of recommended related sites. The feature relies on servers for Netcenter (Netscape's portal site) for a database of links, which are automatically updated via software that tracks surfers' Web usage.

Alexa is archiving publicly available content on the Web so that users who get a "404 Not Found" error message can view the most recently archived version of an unavailable Web page.

"The Alexa service has been the Web's best-kept secret, reserved largely for those Web surfers who like comparison-shopping the sites they are surfing," Peter Krasilovsky, vice president of research firm Arlen Communications, said in a statement.



Copyright (c)1998 ABCNEWS and Starwave Corporation. All rights reserved. This material may not be published, broadcast, rewritten or redistributed in any form.



BENTON COUNTY DAILY RECORD
Bentonville, AR

0. 000 (5) 10 240

Circ - (M) 9,288 (S) 10,240

JULY 6, 1998

Bacon's



Invite who you want to that special party

Slap together a passel of pixcls and viola Thomas Jefferson in the not-actual flesh appears to confer with you or to update your understanding of the Declaration of Independence.

Can't get anyone interesting to attend your party, punch in some pixels and who you want is whoyou get.

You say, "How, Steve, how do I make all that magic happen?"

The Japanese are out front with virtual products like the ones above. Hollywood loves the payscale for virtual actors. The business world will inevitably "hire" more virtual workers in the stores we frequent. These products are coming to the stores, the movies, and soon just like television right into our very own living rooms.

On July 2 the Christian Science Monitor published a valuable discussion of these topics in its online Ideas section. Stars could make virtual copies of themselves and thus never grow old on the silver screen. The actual actor could retired while the virtual star worked on and on and on world without end. (http://www.csmonitor.com)

Who would you summon to come and hang out with you when this virtual self software is available for home use? Socrates

ALEXA is the absolutely neatest thing you can add to your cobersurf experience. What is it? It agins a YAHOO that goes with along with you as you weave your way in the Web. ALEXA silently compares the page you are on to similar quality pages that are out there on the net but whose existence you have nover ever dreamed of. A simple click and ALEXA shows you "where to go next". You must download this now! www.alexa.com

Are you like me and question the validity of bug zappers? Do you doubt anything can stop the influx of flies into every facet of daily life? Do you hanker to know more about the Deer Tick? Have you ever contemplated the Cornworm and its relation to the meaning of life?

That's when the Iowa State Entomology Department website rushes in to save the day. Every type of entomological extracurricular event is here for your edification and even entertainment. http://www.ent.iastate.edu.

Our Cybersalute of the Week goes out in behalf of all those folks who said, "Steve, we don't understand a thing you write but we enjoy reading it". Folks it is a comment like that which sustains the enormous effort we make to bring you this high grade cybermatter each and every week.

I had a Chatroom I wanted to invite you to visit, but I have lost it and when we find it again we will return with a personal invite for each of our beloved readers to enter and talk with us live on Gunter's Web.

Ta Ta till then. Write to us sgunter@comp.uark.edu with thoughts of your day. Friends remember to ever and always Keep On Thinking Free! (http://members.tripod.com/~surrealist/sas.html)

Click on Alexa's "Related Links" button, for instance, and it will display sites that other visitors to the current site have liked. Click on "Site Stats" and it shows how popular the site is, to whom it's registered and how many other sites link to it.

Perhaps Alexa's most interesting feature, however, is its "Archive" button. It's happened to anyone who uses the Internet: Click on a link, and instead of going to that site, you receive a "404 Not Found" message. It means that that site is no longer on the Web. (Bonus information for geeks and linguists: 404 is simply a numerical code assigned to a particular type of file-transfer error. It is currently considered way cool to use the term 404 as a synonym for clueless, as in "My dad is totally 404 on this whole Internet thing.")

Unlike any of the other companies or sites that offer collaborative ratings of Web sites - including Pittsburgh's WiseWire, which is now part of Lycos - Alexa keeps an archive of outdated sites. The information takes up some 12 terabytes of disk space at its San Francisco headquarters. A terabyte is 1,000 gigabytes.

When Alexa users receive a "404" message, they can click on the "Archive" button and view the page. So, for example, a visit to the "Internet Archive" site, at www.archive.org, reveals that some of the pages on the site are no longer available. Ironic, isn't it?

Using Alexa (the company is named after the great ancient library in Alexandria, Egypt), visitors can ask the software to retrieve it from the company's archives.

The Internet Archive is also a project of Kahle's. Its aim is to document the history of the Web. "A lot of the best stuff on the Web is dead and gone," says Kahle. "The average lifespan on the 'Net is 77 days. If this is a publishing medium, there ought to be some record of it."

Still, most people use Alexa for its "Related Links" feature, Kahle says. Peter Krasilovsky, vice president of Arlen Communications in suburban Washington, calls Alexa "the Web's best-kept secret" because it allows people to engage in "comparison-shopping of the sites they are surfing." Even Chris Carson, a spokesman for Lycos in Pittsburgh, calls it "kind of neat."

The links are related, but not necessarily favorable. Related sites at Hanson's Web site, for example, include "All 4 Hanson," "World of Hanson," "The Hanson Page" and one titled "Hanson, Please Stop Singing."

There also is the question of whether Alexa can survive in a World Wide Web defined by portals. Though he dislikes their strategy, Kahle realizes that it does create an attractive environment for advertisers. Alexa's advertisers pop up only when users click on the software's buttons.

"We've got some name-brand advertisers and lots of little guys," he says. "Wherever anyone goes, we have an ad."

In that sense, at least, Kahle sounds much like his colleagues at Yahoo!, Lycos and Excite. This is the Internet, after all. So far, the only way anyone has figured out how to make money from it is by selling



Since midnight.



UPSIDE Today

HOME

NEWS

MONEY

PEOPLE

MAGAZINE

BOOKS EVENTS SEARCH

DailyTish Microsoft Dearest

July 09, 1998 By Tish Williams

Jennifer Edstrom is a character.

I didn't know what to expect of Microsoft PR chief Pam Edstrom's daughter, the co-author of Barbarians Led by Bill Gates (Henry Holt and Co., June 1998). From press reports I expected something between a Oaxacan zapatista rebel and the Brutus of the Microsoft republic. I figured she had to have guts of steel and an arson streak to burn all those bridges.

I had no idea.



Jennifer Edstrom cracks up UPSIDE Publisher David Bunnell

At a dinner full of "digital bohemians," as my tablemates described it, Edstrom certainly made a splash. Daniel Ellsberg, leaker of the Pentagon Papers, was there, as were hosts John Perry Barlow, John Brockman and Brockman's son Max. Brewster Kahle. John Markoff and a host of others rounded out the tables at the Hunan restaurant near North Beach in San Francisco.

Edstrom stood there resplendent in a multitiered rhinestone choker attached to meshy long sleeves. She had one of those Pamela Anderson bodices (sans ubercleavage) and a belt with rhinestone accents. Low heels. Pink lipstick.



Definitely took the hygiene and maintenance standards of the crowd up a noteh.

Edstrom joined the party with eo-author and Microsoft developer Marlin Eller on Brockman's invite--he published the infamous look at Microsoft's engineering eulture, which touehed down the week of the DoJ rulings against Microsoft. The book immediately made headlines based on the mother-daughter angle--the upstart journalist daughter loeking horns with PR-master mom. Not to mention the rumored Microsoft pillowtalk.



Marlin Eller (right) tells Jerry Michalski to have his people call Eller's people.

The Book

Was the book a hatchet job? A mother-daughter vendetta? Edstrom says no. Microsoft-bashing? Nope.

"I considered them [Mierosoft executives] my extended family. But now I guess I'm the black sheep," Edstrom says. "I've been to parties and watched Gates prepare for speeches when my mom would drag me along to Comdex. I never looked at him as this great huge powerful eompany. But when I did the book I realized how Microsoft is absolutely feared."

Aw e'mon. Didn't she even have an inkling of Mierosoft's power, and the potential backlash against the book? "I didn't. ... When I was writing the book, interviewing developers, I was eompletely naïve. I knew I was digging up information that was interesting, things I'd never heard-developers in the trenehes actually saying we've eopied the Mac and broke the Chinese wall."

Edstrom ealled upon Marlin Eller's developer friends, who she says were extremely willing to talk. Based on an earlier meeting with a eandid Eller, she decided to work with him to provide an insider's view of Microsoft engineering, based on Eller's contacts. But then the plot thickened: "I used to think [Microsoft's] eompetitors were whining and jealous. But when I interviewed the development manager of Windows 95 and four other developers, I started questioning whether what Microsoft was doing was completely honest.

"They said consistently that there were never any plans to integrate the browser into Windows 95. I have one of the golden masters, and there isn't anything resembling a browser on there. My opinion changed when I heard what Gates said on the Senate floor," she says.

The Brouhaha

Edstrom's been having her own public-relations problems since the book hit the shelves. "Fighting the PR is certainly a challenge. There was a critical window when the publisher was hoping for things to happen, in the first week."

But despite all the industry buzz, Edstrom that week didn't produce as many articles as she'd hoped. "I know some things were supposed to happen that didn't. That seems strange to me, especially when I gave one and a half hour interviews. I know as a journalist I wouldn't give a one and a half hour interview and waste my time."

Edstrom eoneludes that most reporters are probably too timid to eover the book, for fear of the wrath of the Mierosoft PR maehine (read: her mom). "If I'm a beat reporter eovering Mierosoft, the last thing I want to lose is access to Bill. My mother has done an amazing job in building relationships with the popular media. She's been doing this since the 1980s. ... She works with all the great reporters."

Which doesn't mean that the younger Edstrom isn't willing to put in her own time working a different PR angle. Talk about tenacious journalistic digging instincts—at one point during the dinner a sheepish John Markoff was milling about the room when Edstrom eaught his ear. They exchanged niceties, updates on Edstrom's relationship with her mother. Then, just as everyone got eomfy, Edstrom asked why the *Times* hadn't eovered the book.

Markoff toed the ground. He defended the paper on the grounds that it ran a book review. Edstrom wasn't backing down and pressed Markoff as to why he didn't eover it. Once it hit the gossip columns, Markoff offered, it stayed there.

"You sound just like my mother," Edstrom smiled, as Markoff moved his weight to his other foot.

A ehip off the old block? I wouldn't say that without ducking.

Tish Williams is senior writer/editor at UPSIDE.

DailyTish Archive

Home | NEWS | MONEY | PEOPLE | Opinion | Magazine | Books | Events | Search | About Upside

Feel free to contact us: <u>Ad Sales</u>, <u>Editorial</u>, <u>Feedback</u>.

For UPSIDE Magazine subscriptions: <u>Questions</u>, <u>Back Issues</u>, <u>Change of address</u>.

<u>Subscribe to UPSIDE Magazine today!</u> Copyright ©1997 and 1998 Upside Media Inc. All rights reserved.

Powered by <u>Thunderstone</u>.

They're

Check out the 10 most popular computers



NEWS.COM front page

Join now FREE!

MENU Front Door The Net Computing Intranets **Business** Investor **CNET Radio** Perspectives Newsmakers Rumor Mill

NEWS OPTIONS All the Headlines Desktop News News Alerts Custom News Advanced Search Push



SPONSORED LINK Free Video!

from BUILDER.COM

RESOURCES Subscribe Member Services Contact Us Help

ABOUT CNET Introduction Company Profile Press Releases

The Net

hack to

Send this story to a friend

Communicator 4.5 beta released

By Jim Hu Staff Writer, CNET NEWS, COM July 15, 1998, 9:00 p.m. PT

LIVE stock quote

Netscape Communications

117.3750

For more details, go to

NEWS.COM Investor.

Delayed 20 minutes

Microsoft Corp.

Corp.

NSCP

Netscape Communications has launched a public beta test of Communicator 4.5, the latest version of its Internet software suite.

As previously reported by CNET NEWS.COM,

the new Communicator comes with more features that integrate the browser with Netscape's newly 33.2500 +5.77% refurbished Netcenter Internet gateway site. The new software perks include "Smart Browsing" technology, a

beefed up Web email service, and more roaming capabilities, which allow telecommuters to access personalized features using different desktops.

The software suite also will include Netscape Messenger, an email client; Web-based word processor Netscape Composer; Netscape Calendar for enterprise and group scheduling; and Netscape AOL Instant Messenger, which is currently available on Netcenter.

In addition, Netscape will use software to automate the bug reporting process during the test period. The quality feedback software, produced by Full Circle Software, will give users the option to send in reports to engineering and quality assessment teams when a malfunction or error arises.

A Netscape spokeswoman said that the automated process would eliminate a layer of

Printer-friendly version

Latest Headlines display on desktop

The Net NSI readies for competition

NBC stakes interactive TV project

Embattled e-rate due in

Netizen cashes in on antispam law

Mexico hacking threats intensify

Dutch police chase Net porn ring

Computing Cheap computers: A scary business

No injunction in HP-Xerox lawsuit

Micron will cut 130

Graphics chipsets now a trend

Intranets

Alpha eases e-commerce entry

Small firms too busy for Y2K

Microsoft warns of security hole

Business Excite, Inktomi beat Street

Win 98, Office boost Microsoft

Hatab wanta Oataa baal

Investor Relations Company Contacts Job Openings Permissions How to Advertise Awards Conferences

CNET SERVICES CNET.COM COMPUTERS.COM BUILDER.COM GAMECENTER.COM DOWNLOAD.COM SHAREWARE.COM BROWSERS.COM ACTIVEX.COM SEARCH.COM SHOPPER.COM CAREER CENTER SNAP!

people wno previously nad to read inrough newsgroups and online bug reporting systems to find feedback about software errors.

The release comes as Netscape is in the process of developing Communicator 5.0, which will be based on the Web development community's modification of the browser's source code. Netscape created Mozilla.org to guide the community effort to rally developers around the Miss a day? suite.

In addition, the new browser comes as Netscape increasingly focuses its efforts on beefing up Netcenter to become a major portal player on par with the Yahoos and Excites of the world.

One objective in the new software suite is to drive traffic to Netcenter by linking services from the software end to the portal.

"As Netscape aggressively builds Netcenter into a leading Internet portal site, we will continue to forge new partnerships with content and service providers and increasingly leverage our market-leading Netscape Communicator client software to greatly improve the Internet experience for consumers and business users," Mike Homer, general manager of Netcenter, said in a statement.

As reported earlier, Netscape's Smart Browsing consists of three elements that give additional short cuts to Web surfing. "Internet Keywords" allows users to type in common words or phrases that translate into URLs stored in a database. "What's Related" is a dynamic list of links to other Web sites relevant to the page viewed, and is powered by Alexa Internet. And "NetWatch" uses RSACi and SafeSurf Web site ratings systems to allow users to filter out content.

"Netscape Messenger" is the new application that will become Communicator 4.5's email client. Messenger will include features such as address books, message folders, and an application that transfers files from Eudora and Microsoft Outlook Express clients.

However, in the spirit of the cutthroat browser wars, Microsoft was quick to criticize the

naton wants Gates pack

Analysts scope Microsoft

Long view mixed for <u>Apple</u>

Concerns linger on new Apple high

All the Headlines

FREE newsletter

enter email

Subscribe

sample

integration of browser and portal, saying it would focus solely on the browser technology.

"We won't make technology that will require you to have <u>'home.microsoft.com'</u> as opposed to another start page," said a Microsoft spokesman.

Related news stories

- IE leads browser war at work July 13, 1998
- · Survey confirms browser trends July 12, 1998
- · Andreessen buys into e-commerce July 10, 1998
- · AOL, Netscape push portals July 9, 1998
- Netscape updates Netcenter June 30, 1998

Tech Talk...

Join the discussion! ▶

Go to Front Door | The Net | Search Short takes | All the Headlines

Where to shop

Advertiser links

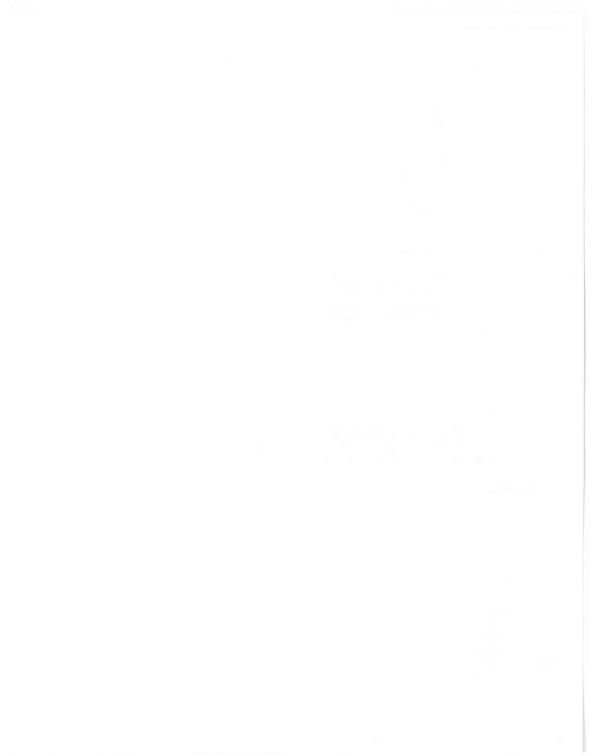
- . Unbeatable software deals at Cyberian Outpost
- Bid on computer products at Surplus Auction
- Tune up your computer at BuyDirect.com
- · Get computer bargains at Surplus Direct
- Save on computer books at Borders.com



Check out the 10 most popular computers.

Back to Top

Copyright © 1995-98 CNET, Inc. All rights reserved. Privacy policy.







Don't buy a home without it.

Netscape Communicator 4.5 debuts

NEWS FROM TON

By Matthew Broersma, ZDNet News ZDNN

Netscape Communications Corp. introduced a new version of its Communicator applications suite on Thursday that blurs the old lines between software and the Internet. Many of the new features are designed to closely integrate the software with Netscape's Internet hub, Netcenter.

COMPLETE STORY -

LINKS, SITES & MEDIA

MSNBC not responsible for content of Internet links

INTERNET Netscape's Communicator 4.5 download page

MSNBC COVERAGE

(STORY) Netscape source-code giveaway a hit

STORY The future of the browser

ADVERTISING ON MSNBC





A feature called "What's Related" puts a pull-down menu on the browser, listing sites similar to the one the user is currently viewing.

ANALYSTS VIEW THE integration that Netscape built into the "public beta" version of Communicator 4.5 as a crucial step in the company's drive to grab a piece of the Internet portal market. It's also a bid by Netscape to keep pace with Microsoft, which is erasing many of the traditional demarcations between a software document and the Internet.

At the very least, Netscape hopes the changes will influence the way users think about Internet software.

"America Online created a really simple user experience; it's easy to find things, to find people, to find information," said Netcenter program manager Ken Hickman. "We want to bring some of those ease-of-use facets to the Internet — to simplify the Internet."

In practice, that means that many of the buttons and menus on the new version of Navigator, Netscape's browser, contain content, often licensed from a third party.

For example, a feature called "What's Related" puts a pull-down menu on the browser, listing sites similar to the one the user is currently viewing. The feature is licensed from Alexa Internet of San Francisco.

PORTAL PLUS BROWSER

"What's interesting is that the integration of the portal with the browser will have important implications for the industry," said analyst Chris Charron of Forrester Research. "The software and the media become more closely aligned, and that creates a whole set of issues around the selling of content and of advertising within the browser itself.

"It's less of a 'neutral' software application, and becomes the portal itself," Charron added.

In other ways Communicator ties directly into Netcenter, a strategy designed to convince more users to sign up and regularly visit the site.

SOME EXAMPLES:

- Smart Browsing. This feature lets you type a common name, say, "American Airlines," into the location bar, instead of a URL. If the browser recognizes the name, it will take you straight to the correct site. If not, it will either conduct a search over Netcenter or deliver you to a subject-oriented page on Netcenter related to the query.
- Addresses and bookmarks. Netcenter lets you store e-mail address books and bookmarks on the site, and synchronize them with Communicator. The idea is to let users keep the information in sync across several PCs.
- Smart Update. Netcenter contains a library of plug-ins and software natches that can automatically install





M 5 N B C I N T E R A C T I V E

Data: Microsoft Investor and S&P

Comstock 20 min.delay

themselves, upgrading applications or adding functions without the user taking any extra steps.

PORTAL PUNCH?

But many observers are dubious that even integration with Netseape's browser, which holds a little over half of the market, will make Neteenter a portal on par with those of Yahoo! Inc. and Exeite Inc.

Netscape, which announced the portal strategy only a matter of weeks ago, has since added content such as Web-based e-mail and news and information channels. The company has also begun an advertising eampaign promoting the site in partnership with Hollywood studios. The promotional drive will include advertising outside of the Internet by this fall.

"[Netseape] should use their browser strength to buttress their portal offerings, but there are a lot of things that are needed as well," said Forrester's Charron. "They need to continue building out their consumer channels, offering tools, promoting off-line. It's all of these things that will make it work."

The Communicator 4.5 beta is available free of charge on Netscape's Web site.

TECHNOLOGY TOP STORIES

(STORY) Deconstructing techno-babble

(STORY) BBS: Should we head for the hills?

STORY Sun software eases network sharing

(STORY) Sub-\$1,000 PC market cooling off





Having trouble accessing those stock pages?

Index | Top Stories | Business | Tech | Politics | World | Health | Entertainment | Sports | Local

Yahoo! News

Technology Headlines

Thursday July 16 9:27 AM ET

New Netscape suite debuts ... and blurs old lines

By Matthew Broersma, ZDNet

Netscape Communications Corp. will introduce a new version of its Communicator applications suite on Thursday that blurs the old lines between software and the Internet.

Many of the new features are designed to closely integrate the software with Netscape's Internet hub, Netcenter.

Analysts view the integration that Netscape built into the "public beta" version of Communicator 4.5 as a crucial step in the company's drive to grab a piece of the Internet portal market. It's also a bid by Netscape to keep pace with Microsoft, which is erasing many of the traditional demarcations between a software document and the Internet.

At the very least, Netscape hopes the changes will influence the way users think about Internet software.

"America Online created a really simple user experience; it's easy to find things, to find people, to find information," said Netcenter program manager Ken Hickman. "We want to bring some of those ease-of-use facets to the Internet -- to simplify the Internet."

In practice, that means that many of the buttons and menus on the new version of Navigator, Netscape's browser, contain content, often licensed from a third party.

For example, a feature called "What's Related" puts a pull-down menu on the browser, listing sites similar to the one the user is currently viewing. The feature is licensed from Alexa Internet of San Francisco.

Portal plus browser "What's interesting is that the integration of the portal with the browser will have important implications for the industry," said analyst Chris Charron of Forrester Research. "The software and the media become more closely aligned, and that creates a whole set of issues around the selling of content and of advertising within the browser itself.

"It's less of a 'neutral' software application, and becomes the portal itself," Charron added.

In other ways Communicator ties directly into Netcenter, a strategy designed to convince more users to sign up and regularly visit the site.

Some examples:

- * Smart Browsing. This feature lets you type a common name, say, "American Airlines," into the location bar, instead of a URL. If the browser recognizes the name, it will take you straight to the correct site. If not, it will either conduct a search over Netcenter or deliver you to a subject-oriented page on Netcenter related to the query.
- * Addresses and bookmarks. Netcenter lets you store e-mail address books and bookmarks on the site, and synchronize them with Communicator. The idea is to let users keep the information in sync across several PCs.
- * Smart Update. Netcenter contains a library of plug-ins and software patches that can automatically install themselves, upgrading applications or adding functions without the user taking any extra steps.

Portal punch? But many observers are dubious that even integration with Netscape's browser, which holds a little over half of the market, will make Netcenter a portal on par with those of Yahoo! Inc. and Excite Inc.

Netscape, which announced the portal strategy only a matter of weeks ago, has since added content such as Web-based e-mail and news and information channels. The company has also begun an advertising campaign promoting the site in partnership with Hollywood studios. The promotional drive will include advertising outside of the Internet by this fall.

"[Netscape] should use their browser strength to buttress their portal offerings, but there are a lot of things that are needed as well," said Forrester's Charron. "They need to continue building out their consumer channels, offering tools, promoting off-line. It's all of these things that will make it work."

The Communicator 4.5 beta is available free of charge on Netscape's Web site.

See Also:

Get help for your computer problems at the Help! Channel

Read hot news at ZDNN

Work from home? Get good advice from the Small Business Advisor

		- AV W. AV AV	- 5+0 = \$1.02 // 3/80\$	1 30 MAN A AAA A S S S	201. A 7 1 1 3 9	Search I	News		
<u>Index</u>	Top Stories	Business	Tech	Politics	World	<u>Health</u>	Entertainment	Sports	Local

Questions or Comments

Copyright © 1998 ZDNet. All rights reserved. Reproduction in whole or in part in any form or medium without express written permission of ZDNet is prohibited. ZDNet and the ZDNet logo are trademarks of Ziff-Davis Publishing Company.



RED

WIRED MAG X Netscape Posts Browser Preview Wired News Report

HOTWIRED

9:45am 16 Jul 98 PDT

It's Communicator 4.5, and it's more than a browser. It's a front end for a Web site.

Netscape (NSCP) today posted a preview version of its new browser and enterprise software. Many of the latest tweaks enhance the newest branch of Netscape's business strategy, the Netcenter Web portal (which is also where the new software can be downloaded). Prominent among the 4.5's features in the beta version is Smart Browsing, designed to make addressing and finding sites guicker and more intuitive.

Roaming Access, another feature not previously announced, lets users store their bookmarks, address books, and other preferences on Netcenter for access from any browser (though Navigator works best), on any PC.

Smart Browsing taps into a back-end, 1.5 million-keyword database at Netcenter to identify Web addresses by plain words and phrases instead of URLs. It also provides a pop-down menu of related sites -- dubbed "What's Related" -- which are culled from the 12 million sites. tracked by the Alexa Internet service. If the browser can't guess which Web site is being sought, it will deliver users to the Excite-branded Netcenter search page. All this, of course, helps direct the company's 70 million-plus browser users to its new Netcenter portal.

Improved emailing is also part of the package, as is support for mobile and PalmPilot users, who can swap their email and addresses with Communicator.

I t'awt I thaw a hand thignal: If new technology from Toshiba can deliver what's been promised, PCs could one day recognize hand gestures. The company said today it's come up with a computer system that can recognize 3-D images -- even if they're moving. Software detects moving images via infrared light-emitting diodes and an image sensor. This combination, Toshiba says, could be used to build a computer-user interface that's easier to use than a keyboard, and applications that serve the disabled, the elderly, or children.

Reuters contributed to this report.

Check on other Web coverage of this story with NewsBot





TECHNOLOGY Today's Headlines

Netscape Posts Browser Preview

Navy Software Dead in the Water

Creating One Huge Computer

Internet2 Put to the Test

Sun Gettin' Jini Wid

Electronic Eyes Get Smaller

From Criminals to Web Crawlers

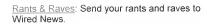
Sapphire Valley?

Java Clone Laid Open

Policing the Java Police









Tips: Have a story or tip for Wired News? Send it.





Copyright © 1993-98 Wired Ventures Inc. and affiliated companies.

All rights reserved.

THE NEWS - ENTERPRISE

BARBARASHAR I THE

A JACASON I

Sacous

Netscape Communicator update fires up Web browser war

Dare continues to errore

U. eek, coupling the new thower on with an eggressive marketing tempatign that we should be seeing thrown soon. dition of Communicator 4.5 this The new Web browser isn't a

one revenue of previous versions of loannunicator. What they did was

The most sidely used Web browser The upcoming \$10 million

supaign will distribute 125 authorn copies of the new Web

L rosset Neway ... a var at co cromanosaor 4.5 awar at co C carpe a practice 11 put co place C arour. Genmuncator 4.5's new a surres provide deter linuage.

Here ween the Web browser and the company's Necesster Web size.

Analysis say this is a more to the more more users to be 44 here. marge a practice it put in place in

S build bisiness at its Nettenter

Orie

R The browser's new for

The browser's new features is to

orum unuscator Web browser as well

Turact more users to both the

The move is an attempt to hold

punum, 10's what the earlier

ersions of Communicator should in ur pue - It sees it pue arm c

Web sites similar to the one the features a pull down menu, listing

C) Netscape Communication of eleased its new-and improved Web irowser this week — right on the

sumplify using the Internet, according to Netscape officials.

Communicator 4.5 includes a

BROOKS 3 Columnist On Line

new "What's Related" outton that

other new features, including:

Smart Browsing. A user can
type a name into the Web browser's address. If the browner recognizes the name, it takes you to the Web site If not, it conducts a search via location ber instead of a Web site

of suggested sizes.

E-mail address and the Netcenter site and offers a iss user is currently viewing
The feature is a service Netscape
has beened from Alexa Internet.—
a company that offers its own

The browser offers a number of standatone browser "belper" to offer Web-connected Pt feature gives you access to your addresses and bookmarks from any

intended to add value to their Web site and browser, in effect, it's a move to create another 'Web Web surfing portal," a starting point for users

available free of charge to download The Communicator 4.5 beta is

computers and locations, thus who operate from a variety of the Newenter site. For Web surfers soon allow you to store e-meul address books and bookmarks on bookmarks. Communicator will company earnings this week, Apple Computers' stock sourced to a 52

The move by Netscape is

apparent shift in momentum predicted by Wall Street analysis case execusive. Apple has sucee its investors took note of the company's percent With co-founder Steve Jobs as With earnings well above those

week high, jumping more than 10

killer G3 Magntash bne and losses, pushing its new Pentium-

from Netscape & Web site at http://home.netscape.com than-expected third-quarter STREET. After reporting betterconsumer Macantoshes to less than Powerbook notebook computers, and is set to roll out its itlat line of

a profitable fourth quarter, analysts a month are already predicting. And the company is on track for For information about Apple

Communications Commission's raised by the Federal moo apple com Computers, visit their Web site at E-CASH COMING. The money

III BIROOKS See Page 15A

should be trickling to schoots and long-distance phone surcharges The News Enterprise Sunday, July 19, 1598 11 A

Brooks

From Page 11A

libraries this fall, according to Ira Fishman, chairman of the Schools and Libraries Corp.

The SLU was created by the FCC to handle the revenues brought in by a long-distance usage tax levied after passage of the 1996 Telecommunications Act

The surcharge, also referred to as the e-rate tax, has created substantial controversy, even before any of the money — destined to help wire schools and libraries to the internet — was ever spent.

The FCC's move was texation without representation, critics say, because Congress never approved or voted on the fee. Furthermore, they say the FCC's move to establish the tax on long-distance carriers was an overly broad interpretation of language the bill contained.

The fee won't be rescinded once schools are wired. Critics charge the requests to the SLC have included requests for new carpet and asbestos abatement.

According to the FCC, the funds can only be used to pay for portions of Internet services and internal connections within buildings—not for computers, renovations, teacher training or other items.

The SLC to date has received more than 30,000 requests from schools and libraries.

The amount of discount available for Internet services and equipment for schools is being directly linked to the percentage of children who qualify for the national school lunch program. The higher the percentage of students in the lunch program, the greater the discount available to the schools.

The FCC temporarily curtailed the e-rate program in June when long-distance carriers threatened to impose surcharges on customers to pay the tax.

The FCC recently announced that it was scaling back the amount of money by half to \$1.275 billion for 1998.

For more information, visit the SLC's Web site at www.slcfund.org.

Do you support paying higher long-

distance rates to help wire our schools and libraries — even in light of statistics showing that 80 percent of schools already have Internet access? Send me your thoughts at the e-mail address below.

Comments and questions about this column may be sent to jbrooks@myoldkentuckyhome.com. or visit www myoldkentuckyhome.com on the World Wide Web.

Garden City, NY

Circ — 68,034

Weekly

JULY 20, 1998

Baconis

3985.A Impulsel Buy Network Inc. (www.impulsebuy.net) announced a host of new Channel Partners that will feature Impulse! Point-of-Purchase displays on their Web sites. New Channel Portners include Alexa Internet, Catalina Marketing's Supermarkets Online, Catalogsita, Coolshopping com, Gulhy-Renker Internet's Choice Mall, iVillage, Internet Broadcasting System, goZnet, Metromail's DV2U, Netcentives, NetDeals.com, Planet Direct and Ihird Age Media. Other distribution partners include advertising network Imgis Inc. and leading e-mail service InfoBeat

Fragrames Counter, an online retailer of fragrances, announced the lounch of CounterEles Counter (www.cosmelics.counter.com), a Web site affering brand-name color casmetics, beauty treatments and accessories Product afferings include such brands as Elizabeth Arden, Clinique, Estre Louder and Lancomé. The site was developed by Organie in New York.

microsoft Corp. (www. microsoft com) launched its HomeAdvisor Web site (www. homeadvisor.com), offering real estate-related information to users and prospective home owners. Visitors can search for available properties and loans. Esements Wews Features, a real estate information company, is providing contact for the Web site.

In other real estate news, America Online tree. (www.aol.com) and Essette tree. (www.inkirt.com) announced they have teamed up to launch a new mortgages area on AOL's real estate center as part





PC Labs Reviews **PCs Peripherals** Software Internet Networking



Internet

Netscape Communicator 4.5 Preview Release 1

Continued from previous page

Hev Cousin!

What's Related is a pull-down menu accessible from a toolbar button placed to the right of the address bar. When you click on the button, you see a list of sites related to the current page. From the official White House page, for example, you get a list of other government sites. What's Related now contains about 12 million URLs that are based



on Alexa Internet's database and should hold about 20 million by this fall.

In addition to browsing enhancements, Netscape has also overhauled its messaging features. Netscape Messenger now supports Pinpoint Addressing--Netscape's term for auto-completes as you type--in both personal address books and corporate LDAP directories. If Messenger comes up with more



than one possible match, you get a list of possible recipients from which to choose. Netscape has also restored the three-pane interface from Navigator 3.0, making it easier to manage multiple e-mail accounts and sort mail into folders. Import utilities for Qualcomm's Eudora and Microsoft's Outlook Express simplify transfers of address books, mail, and preferences to Messenger.

Corporate users will appreciate the Roaming Access feature, which allows you to store all browser and mail Communicator settings on a server where they can be accessed from any system. And devotees of the PalmPilot hand-held PC will love the e-mail and address book synchronization utilities.

Download 4.5 Preview Release 1 from our Software Library

Other new features include an optional Quality Feedback Agent, which gathers information on your system when you experience a problem with Communicator and reports back to Netscape, as well as an enhanced version of SmartUpdate that promises to reduce download times on updates by allowing byte-level patching.

Perhaps the biggest news has less to do with Communicator itself than with its integration with NetCenter. The Smart Addressing feature, for example, will allow Messenger users to search for e-mail addresses--not only in their personal address books and corporate directories--but also from Netscape's Member Directory. (Users who register for the Member Directory can choose whether they want to toss their rotary card files into the ring.) Communicator users will also be able to store their e-mail, bookmarks, and address books on NetCenter, where they will be accessible from any system. These features are not included in Preview Release 1 but should be available within 30 days.

Together, Netscape's Smart Browsing and messaging features are part of a strategy to make finding information and people on the Internet easier--and, of course, to boost traffic on its NetCenter Portal site. On both counts, success is likely. Microsoft has released a Developer Preview version of Internet Explorer 5.0, but it's still too early to tell what Redmond has in store for end users. In the meantime, Communicator 4.5's integration with NetCenter gives it an edge.

Netscape Communicator 4.5 Preview Release 1. Price: Free download from home.netscape.com. Netscape Communications Corp., Mountain View, CA; 650-937-2555; home.netscape.com.

RELATED LINKS

* <u>IE5 Developer Preview</u> -- First Looks 6/11/98

New products, reviewed here first.

BrowserUser: Communicator -- ZDNet Products
Downloads, tips, and reviews.

Netscape Communications Corp. -- ZDNet Interactive Investor
Company profiles and stock quotes.

Internet/Online software -- NetBuyer How to select and buy.

Communicator 4.5 Prv Rel 1 -- PC Magazine Software Library Download software we've recently reviewed. More First Looks



Previous Cool Tool

Keyword Search Version: 4.5

Search!

Power Search

Submit A Tool

About Cool Tool

Advertise on Cool Tool

Navigator 4.5

Company: Netscape

Platforms: Win 95 MacPPc

Download Link:

http://home.netscape.com/download/prev.html

Description: Browser with "What's Related" feature

So we scooted outta here early on Friday to get a good seat at the big <u>Roger Daltrey</u> show at Baltimore's Artscape Festival. We'd been big Who fans for a long way back, though, as they say, "we really like their old stuff."

Anyway, we brave the heat, the humidity, the crowds, the drunks, the cops, the panhandlers, and the bad sausage and end up getting a pretty good seat on the lawn, right in front. We're all a little excited, an excitement bolstered by several rapidly warming cans of cheap swill.

So we wait. And wait. And wait. And fight off blanket interlopers. And wait. And finally, after about 2 hours, the British Rock Symphony comes out and starts to play...

Peeeewwww! Stinko, dude, stinko! We've never been fans of over-orchestrated rock and this sounded like the second coming of "The Henry Mancini Orchestra Plays Your Favorite Elevator Rock Hits." All we can say is that Led Zeppelin was never meant to be experienced as sung by a quartet of music school yodelers.

Roger was OK...for an old guy...but we couldn't help but wish that someone had warned us what we were gonna be in for. Nice stuff, in its place, but a little old and stale.

So (segue alert!) that brings us to Today's release of Navigator 4.5 beta. For most of the surface appearance, things are mainly the same. Some buttons have changed a bit (there's a "My Netscape" button at the top-- all the better

for shuffling you off to their "portal" site) but nothing too jazzy. Until you look to the right of the location bar and notice a new button called "What's Related." That's when the fun really begins.

See, if you're usual Web experience is a bit like ol' Roger -- a bit tired, a bit worn around the edges, a bit too familiar-- then you'll like this new feature. If you've been feeling down on the Web because you're stuck in the same old rut of bookmarks you're gonna LOVE this new feature.

"What's Related" uses technology from <u>Alexa</u> to suggest new sites like the one you're currently surfing on. It works pretty well, too -- in our tests, we actually did like the sites suggested as alternatives. And we're not exactly sure how it works but we'll guarantee a new "Web Positioning" war as sites battle to make the most "What's Related" lists. Yeeehhhhhaaa! Watch the dust fly!

In the meantime, if you're feelin' a bit bored, if you're feeling like you're missing stuff on the Web, or if you're just feeling like a middle-aged rock star, give Navigator 4.5 a try. They're even throwing AOL Instant Messenger and the Shockwave plugin for extra fun. Even if you don't like the "What's Related" feature, you'll be sure to dig the thrills and spills of another beta release!

Previous Tool
Today's Tool

copyright 1998 Carton Donofrio Interactive





*ZDNET *NEWS *INTERNET *PRODUCTS *NETBUYER *DOWNLOADS *MAC *GAMES *ZDTV HOME *HELP! *SMALL BIZ *LEARNING *MAGAZINES *INVESTOR *ANCHORDESK *COMMUNITY *TV PROGRAMS

Computer Magazine Archive

Sorted by ORelevance Date Search for (all words): Alexa Results: 40 items found

Digital Store

Channel Partners that will feature Impulse! Point-of-Purchase displays on their Web sites. New Channel Partners include Alexa Internet, Catalina Marketing's Supermarkets Online, Catalogsite,...

07/20/98

Inter@ctive Week

Netscape Communicator 4.5 gains mail edge

The next version of Netscape Communications Corp.'s Communicator suite is shaping up as a useful upgrade, with significant improvements in messaging features and a few helpful new Web...

07/17/98

PC Week Online

INTERNET: NETSCAPE GETS PERSONAL IN WEB PORTAL RACE

Netscape Communications Corp, racing to catch up in the internet portal game, has announced the next version of its website, Netcenter 2.0, incorporating the kinds of features required...

06/21/98

Network Briefing

NETSCAPE GETS PERSONAL IN WEB PORTAL RACE.

Netscape Communications Corp, racing to catch up in the internet portal game, has announced the next version of its website, Netcenter 2.0, incorporating the kinds of features required...

06/02/98

Computergram International

Electric Cafe to shake up Web graphics with Twitchy.

Targeting the expanding market for Web graphics software, Electric Cafe Inc. this month announced an all-in-one tool for creating common Web page elements. Code-named Twitchy, the product...

05/18/98

MacWEEK

Electric Cafe to shake up Web graphics with Twitchy

Targeting the expanding market for Web graphics software, Electric Cafe Inc. this month announced an all-in-one tool for creating common Web page elements. Code-named Twitchy, the product...

05/18/98

MacWEEK

WHEN THE PAST BECOMES THE FUTURE: With big banks to bash and the right squa...

Just as every teenager today in shoulder-length hair, skintight shirt and platform shoes looks airlifted straight from the pages of a 1973 high-school yearbook, so, in politics, do familiar...

Powered by:

1 of 4

05/04/98 M

Maclean's

Make Your Web Site Mean Business

Web site as the responsibility of the IT department, think again. These days, the Web is one of your most important marketing tools-a medium that you use not only to offer products and...

05/01/98

Computer Shopper

Make Your Web Site Mean Business.

Web site as the responsibility of the IT department, think again. These days, the Web is one of your most important marketing tools-a medium that you use not only to offer products and...

05/01/98

Computer Shopper

Alexa's free Web navigator deftly searches for Web sites.

Alexa Internet's Alexa 1.4 is a freeware browser add-in that helps users sort through the excess of information generated by search engines to locate sites with quality information and...

04/27/98

InfoWorld

L.A.'S TEEN STRONGHOLDS.

Brentwood and Sav-on in Santa Monica are wooing teenage cosmetic buyers with more enthusiasm than other L.A. area drugstores. Both chains devote 10 to 20 percent of total cosmetics real...

04/24/98

WWD

Better surfing with Alexa

Would you like a good Web site recommendation? How about a quick reference source? Could you use an instant messaging system? If any of this sounds good, you'll be interested in Alexa,...

04/01/98

Inside the Internet

Mapping your Web site with SiteMap

Better Surfing with Alexa," we mentioned that you can get a site map for the Web site you're currently visiting. Alexa outsources this service, and it's useful enough by itself to deserve...

04/01/98

Inside the Internet

Find Information Faster

Finding Web sites on the Internet has never been a problem. Finding the right sites has been. Each search engine plays by its own rules, returning different results in a different order...

03/24/98

Navigation Utilities

Alexa helps steer you to where you might want to go next, with a list of related links for any site you visit. Alexa also searches its database to give you information about a site you're...

03/24/98

The Essential Toolkit

The risks of suffering a computer virus attack have multiplied with the increase in e-mail and Web usage. Whether you use your PC at home or in a corporate setting, you need a strategy...

03/24/98

Several Web sites can help Windows HTML developers.

There are a number of Web sites available that help Windows developers create Web sites and obtain detailed performance information. Alexa is a freeware program that tracks the number...

03/02/98

InfoWorld

What's in Online

Building community is key to the health of almost any Web site. Now, with the help of a new genre of customizable browser shells, Internet service providers, community sites, and online...

03/01/98

Computer Shopper

Yahoo!InternetLIVE

Join host Greggson for this timely chat on what's involved in being a father in the '90s, ichat.iconnet.net:4080/*index?client=plugin&start=/world/rooms/Dadsan Animation Chat Midnight...

03/01/98

Yahoo! Internet Life

The Hot Spot

Ever wondered just how big the Internet is? According to Brewster Kahle and Bruce Gilliat of Alexa Internet (www.alexa.com), the public Internet contains about 8 terabytes of information-all...

03/01/98

Computer Shopper

Free Download Of The Month

The free Web navigation add-on provides users with a variety of cool services, such as link suggestions (for finding new sites based on your surfing preferences), quick-click access...

03/01/98

Yahoo! Internet Life

Alexa provides additional ways to navigate the Web.

Web browser utility available as a free download over the Web, provides crucial Web site information that can help users gain confidence in the reliability of Web-based services. The...

02/23/98

InfoWorld

Disk-drive hardships no surprise

Margaret Kane Dismal announcements from disk-drive makers Seagate Technology Inc. and Quantum Corp. Thursday came as no surprise to industry analysts, who said today the industry is...

01/16/98

The Future of Search

These pages offer a good guide to searching, but it's apparent that such tools, no matter how advanced, still can't keep up with the Internet. The amount of data, the rapidity of change,...

12/02/97

PC Magazine

Seeking the right search tool.

Internet search software use pattern analysis to find information, but testing showed Alexa to be much more useful than Concept Explorer Pro. Alexa analyzes the site currently being...

A

12/01/97 Windows Magazine

Items 1 to 25 of 40

NEXT /

---- A ZDNet Site ----

ZDNET HOME | SITE MAP | SEARCH ZDNET | WHAT'S NEW | AD INFO | CONTACT US

Use of ZDNet is subject to certain <u>Terms & Conditions</u> Please read ZDNet's <u>Privacy Statement</u>

Copyright (c) 1998 ZDNet. All rights reserved. Reproduction in whole or in part in any form or medium without express written permission of ZDNet is prohibited. ZDNet and the ZDNet logo are trademarks of Ziff-Davis Inc.

DAYTON GALL RENS By Tom Wright

Explorer 5.0 PP1. Netscape quickly followed suit with Communicator Right on the heels of Microsoff's latest beta browser release, Internet 4,5 Preview Release 1, released to scheduled for a fall 1998 release a public beta on July 23 and

Netscape's entire suite of hagship applications, including Navigator. Messenger (email/news/eader) and Communicator 4.5 shows some Containing updates for the Composer (HTML editor).

definite improvements over the 4.0x users have enjoyed for years, keywords let you;

Feedback System and the release of its next generation source code mostly due to their new Quanty to the public. It's also a much line or browsers, including the use of internet keywords, a new "What's Related button and various ungermore than 4.000 improvements in this latest version of Communicator. Netscape claims to have made the hood enhancements.

version of ACL Instant Messenger

is also buncled with the suite

browser automatically, A special

version of Netscape's interner suite for both Mac and Windows and have We snagged a copy of the lates! all the details on the new browser refinements in the code and Smart Update, a feature that updates the messaging program that smaller download, thanks to

your oreferences will be transferred remote serve" When you log into from the remote server and it will Vetscape on a crifezent machine act just exactly the same

Overall Impressions

remarkably stable especially for a beta. The NetCeruter concept is great Netscape appears to be making the correct improvements to their reverse their eroding market share but we'll hold our verdict until the finished versions are available this version of Communicatoris orcwser in a last-ditch effort to

emphasis on decoming a Web portal The question is. "Will this new Save Netscape?"

if you aren't, it still takes already an AOL member compatible in future Registering for the especially if you are

Netscade's browser market share and state and state from nearly 90 percent. They years ago to just over 50 percent in the first haif of 1998. according to Adknowledge, a New York-based Web marketing agency Recent numbers don't suggest it Some private studies have only a few minutes to get

The telling tale will be the release of Netscape Navigator 5.0. If elease of the havigator 50 source code, they might have a chance to compete with Microsoft. They need to produce a supenor product and right now, Navigator 4.5 isn' as good as Internet Explorer 4.0. It Netscape uses the suggestions they we received from the oublic Netscape's share even lower

What Netscape Communicator 4.5 certainly closes the gap. Though

For: Windows 3 1/95/98, NT

contain anything that Ail make the Average Web surfer jump for cy. 32. It is a welcome evolution that has iffle less intimidating for new use. home netscape com/download Verdict: Netscape 4.5 doesn't Where to get it: Aacintosn, Unix

Browser

har ann if it matches a keyverd on the Netzente; nght up. However, when name into the address automatically takes you the Corrette site popped brand, the results were somewhat different. smaly type a word or we had in 'IBM Apuva. a common computer site, the browser there. We tried whole. The prowser engine appears to be a little faster than previous dropping a point [from 195 to 194 in CaffieneMark 3.0 testing]. The Windows version improved drastics in vaned greatly between the Windows If you're used to using Navigator and Mac versions of the browser. differences in the browser as a Since our last test jumoing from 646 to 870. versions, but Java performance 4 Ox, you won't find too many with the Mac version actually

Chevrolet Corvette and

To test your browse; with

Instead of being taken to

search results page with It is obwous that these work, but the concept is

ended up at an Excite The IBM Web site, we

right-on. Netscape says

that the NetCenter

features need a lift/e some rea/ly bad hits

CaffieneMark, point your browser to www pendragon-software com, Netscape has closely integrated its new browser with its Meb site. which has been renamed

mail The personalized Web site isn't Metcenter is also linked with the ready yet, but Netscape will send you an e-mail when it is

Excite search engine that uses Mexa Internet's preference tracking software. The What's Related button next to the address bar is a great way to get links to comparable sites and other related information. When you click the What's Related button, loads the links to a drop-down menu. Another nice improvement, though Communicator queries Excite and AL'S not very refined yet, is Netscape's use of Internet

A benefit Amenca Online

Keywords

by sending you where they want you to go, which may not necessarily be the abrility to control what you see However, this may give Netscape many more terms in the future. contain generic terms and some specific URLs and will grow to contain database will initially where you want to go. and sile complex.

and sile complex.

ews. sports and a te.

order if the complex.

that on the complex of the

E-mail and messaging

Suiles, a scaled-down HTML editor

As is custom in large internet

HTML Editor

and feel. Vastly improved

is included. Composer, Netscape's WYSIWYG editor, is nice for creating and editing simple HTML, but when things get complex, it chokes, it formatting options or scripting, but is fine for someone to use on a Communicator 4.5 also includes 40t, Instant Messenger, in stant AOL Instant Messenger doesn't offer many advanced Other stuff Simple page Eudora. Back is the original three-paned in Netscape 3x. if you prefer the old two-pane email reader, it's easy to switch back. Message littering Communicator stunk. The result is new version of Messenger bears a striking esemblance to Microsoft Outlook Express, but then Outlook Express Icoked a heck of a lot like Netscape finally got the hint that newsveading into Messenger. The the new Message Center, which their e-mail and newsreader in integrates both e-mail and



newsreader, unlike its predecessor Collabra, has a clean. intuitive look options are easy to use and the



Roaming Access

If you use several machines, you in store you preferences on a

Botter Preferences and Content Control

Communicator has also enhanced their Preferences screen, making it easy to customize all of your settings. Parents will be nappy to know that Netscape has finally integrated PICS based content filtering, a feature available on Internet Explorer for hearly two years. It's about time







Sharpen Your Search Tools

According the a recent Intermutional Data Corporation (www idc.com) phone survey, 92 percent of respondents say they access the Net at work.

A Wall Street Journal (www wsj com) survey reveals that 87 percent of WSJ subscribers surf the Net for information.

We use the Net to email each other, access listservs, share files with co-workers, and search for information. Of those activities, searching can be the most confusing and time-consuming. It has been compared to hunting for a needle in a haystack or wandering through a library of unorganized books. But the good news is that search tools are improving.

Generally, search tools are indexes or directories, though some are both, Indexes are information collectors. Web robots scour the Web to update databases, so you usually get fresher Website links using robot-type searches. On the other hand, you can get useless Website links that have an obscure

mention of your search words.

Examples of indexes are Infoseck (www.infoseck.com)
and AltaVista (www.altavista.digital.com)

Directories are human-created Website catalogues. That means you're less likely to find irrelevant Websites. The downside is that they're usually not as current as indexes. Example's of directories are Yahoo' (www.yahoo.com) and Mugellan (www.mckinley.com)

Most tools search by keyword. You can add Boolean operators (such as AND, OR, and NOT) and include/exclude operators (+ and -) to increase your odds of receiving meaningful search results. There's no uniform search method—each tool has its own. So, when one produces lackluster results, try another. The chart below shows what some popular search tools can do

Power-Search Tips

You can use these search methods to boost your Web productivity (For more guidance on using them, go to Help in your search tool's main page.)

Boolean operators. Use AND, NOT, OR, and NEAR to construct search strings. Example: training AND development NOT sports gives you true t&d Websites and eliminates most sports-related sites.

Wildcards. Use an asterisk to perform a pattern-matching search. Example:

lead* yields results with leading, leader, and leadership.

Include/exclude. Use + and - signs to define what words you want and don't want in your search results. Example: +software +training -Macintosh gives you software training sites that exclude the word Macintosh.

Quotes. Use quotation marks to search for a phrase Example: "executive coaching" returns sites that contain that phrase, not just executive or coaching.

Search Tools	Search Results			Search Options			What's New?	
	URL	Summary	Relevance Ranking	Boolean Operators (or equi	Wildcard *	exclude +/-		
AltaVista	×	×		×	х	×	☐ link to Wild, Wild Web tv show Website ☐ LookSmart directory added	
excite	x	x	x	x		×	⊃ personalized homepage service with NewsTracker service ⊃ "Manage Your Career"	
(O O	x	×	×	×		×	☐ LookSmart directory added☐ HotBot Shopping Directory	
infoseek-	×	x	×	×		×	□ "Best Bet" topic lists □ free Webpages	
LYC. S	х	×	×	×		х	 ⇒ revamped personalized service ⇒ ZDNet software downloads 	
37.FOO		×	×	×	×	х	☐ free email with personal- ized pages ☐ new Spanish version.	





Sizzlin' Sites for Presenters

Bookmark these Websites for business

☐ Alynn & Bacon Public Speaking Website, www.abacon.com/ pubspeak

Here's a Website that's loaded with useful information and links. Learn to assess your speechmaking situation, analyze an audience, research a topic. organize and write a speech, and deliver a presentation. There are also notes from the instructor and interactive exercises to guide you.



Free and Easy Can't get enough of that freebie stuff? Check out these online finds

Employee manual guidelines. This guide offers a basic outline of an

employee or policy handbook. It provides sample sections and offers a "Ten Key Points List" to important areas that a manual should include. Go to LRR.net at www.lrr.net/employ1.htm. Mad catt

Here's no frills email you can use with out an Internet account. No cost, No hassle. No file attachments. Fill out a demographics survey and download at www.juno.com.

Show me the Monet.

The WebMuseum offers hundreds of downloadable fine art files that can used for Websites and presentations. Think of the possibilities. Go to

 Bartlett's Familiar Quotations, http://www.columbia.edu/scis/bar tleby/bartlett

Looking for a memorable quote for your next presentation or speech? You can search for it by keyword or by author (from Chaucer to Shakespeare to Rutherford B. Hayes) in this 1901 classic.

☐ Virtual Presentation Assistant. www.ukans.edu/cwis/units/coms 2/vps/vps.htm

This helpful site is maintained by the communication studies department at the University of Kansas. You'll find research resources, delivery tips, visual aids help, and links to public speaking sites here.

Web trek: the next generation

A promising and relative newcomer to online data navigation is Alexa (www.alexa.com). This service crawls all publicly available Websites continually to create a snapshot of the Net over time. The Alexa service acts as a browser companion that

- a creates information and statistics about Websites, such as how other people rate the sites
- in displays archived Webpages no longer available (eliminating many dead
- □ provides instant access to the Enevclopedia Britannica, Britannica Internet Guide, and Merrium-Webster Dictionary and Thesaurus
- clusters similar sites and pages.

Alexa works with Navigator 3.0 or later versions and Internet Explorer 3.0 or later versions on Windows 95 and NT. Best of all: It's free to download at its Website

If you spend much time digging for information online, it's important to learn how to search smart. It's easy to get off track when you can't find what you're looking for, so you should equip yourself with some sharp tools Find a couple that perform well and deliver the extras you need. Then, learn to work them. After all, life's too short to be in perpetual search.

Virus FAQs

Q. What is a computer virus? A: A virus is a computer program

designed to alter your computer system without your knowledge.

Q: Can you contract a virus by reading an email message?

A. No The potential danger is not in the email text, but in attached files. You can get a virus via email only by executing a virus program found in an infected file attachment.

O. Are all email warnings about viruses legitimate?

A: Those that insist that you can get a virus simply by reading an email message are hoaxes. To check recent hoax lists, go to www.symantec.com/avcenter/ hoax.html. You can read about

virus myths and realities at kumite.com/myths.

O: What's the best protection against viruses?

A: Use such virus protection software as Norton AntiVirus or McAfee VirusScan, Also, don't use email attachments from unknown sources.

Source: Rob Kaighn, ASTD Information Systems)

URL Express

Hate typing Web URLs? If it consists of www.[name].com, simply enter the [name] part Try it-type IBM in the URL block. Netscape and Internet Explorer fill in the rest for you and deliver the Webpage!

Savvy Travel

Continental Airlines has a new reward program for small businesses. Reward-One. Organizations can use it to earn bonuses based on employees accumulated points. Bonuses include upgrades, Bronze OnePass Elite Status, Presidents Club memberships, and free tickets. For information, go to www.flycontinental com/products/ rewardone

@Work covers Internet technology trends, news, and tips, Send comments, questions, and items of interest to anwork to avid ore



LOST AND FOUND IN CYBERSPACE; THE ALEXA NAVIGATION TOOLBAR

The Web has gotten very big, very fast. When you go to your favorite sites, you know what to expect, but when you're surfing, it would be nice to get a little context — to know who owns the site, how popular it is, and how other people feel about it. The Alexa Toolbar gives you this information and more lightness you how the site is rated for privacy, authentication and content, and where other people go from this site.

Sta Literation Kick

Alexa is a new navigation service, one that becomes, becoming a part of the browser infrastructure and gives you useful information automatically as you suff the web. The Alexa Toolbar, affloating window (Figure 1) ted to your browser, shows you the meradata about the site itself who owns it, how popular it is (in terms of Alexa user visits and links). A pop-up window (Figure 2) shows you full domain owner information, number of total visits, affecta visits and votes, as well as additional site statistics extracted from the Internet Archive, such as the number of links into the site, the mumber of pages on the site, the server response speed, and how Tiresh' (recently updated) the site is.



Figure 1. Alexa's toolbar at the Dilbert site.



Figure 2. Alexa's pop-up window for SFGate site.

Alliances with other services provide additional information, including:

- Yahoo! Internet Life (general usefulness ratings).
- "TrustE (privacy practices certification)
- VenSign (authenticity verification, for Web Commerce).
- RSACi (Recreational Software Advisory Council on the Internet. providing content ratings, including pomography warnings)

All this information gives you guidelines to understand what kind of site you're visiting, which is useful at the best of times and vital for business relationships.

Automated Pathways

Alexa is also creating information itself, it tracks the usage paths of its users, not individually, but as a flow It watches Alexa users to learn what sites are commonly visited in the same part of a web browsing session. It also learns from Alexa users, who "vote" on whether or not they like a site (Figure 3). These paths and votes are stored on Alexa's servers and used to provide additional relational metadata (individual users are not tracked). Other similarity information includes links from one site to another, and content equivalence analysis. So even sites without many Alexa visitors will include links to related sites

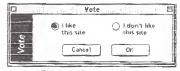


Figure 3. Voting with Alexa.

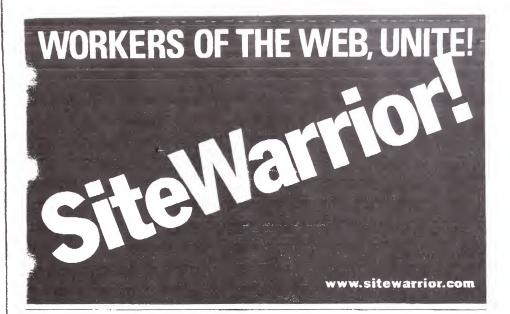
The Related Sites pop-up (Figure 4) allows other Alexa users to avoid useless sites and concentrate on the good ones, as determined by the paths and votes of users going to sites similar to the ones you visit.



Figure 4. Alexa s Related Siles pop-up window

Finding Lost Pages

In addition to site data, Alexa is connected to the Internet Archive http://www.internetarchive.org/. This is a project which crawls the Known Web every couple of months, follows all the links it can find, and stores copies of all the new and changed pages in huge databases. This spring, they re up to 10 terabytes (thousands of gigabytes), which is as much as one half of all the information stored in the Library of Contress (if that were digital). Its growing by a terabyte a



onth, as the Web grows. The Internet Archive, which stores uch more pages than any search engine, provides snapshots of the Web over time, and will prove extremely fertile ground for researchers of the future. But it can also help us in coping with the Web as it is today.

Alexa will automatically check the Internet Archive database whenever you ask for a page that isn't there. There's not much it can do for typos in URLs, but if the page just got lost or deleted by accident, Alexa's button will activate, and will be able to bring up that old page from the Archive.

and That's Not All

The Alexa Toolbar also links to the Encyclopedia Britanica, Merriam-Webster Dictionary and Thesaurus and other useful reference guides.

Alexa Internet also offers a "backlink" service, allowing web site developers to install a button that displays a list of all the sites linking to their site or page. And you can contract for usage path information to target your most bortant colleagues and competitors.

How do they pay for all this? The Alexa Toolbar is free, supported by discreet advertising square, much smaller than a button (though unfortunately often animated). Advertising is targeted, so you won't get ads for shoes when you're looking for Web servers.

The Mac Alexa software runs on 68040-based and. Power Macs, under System 7-5 and up, running Netscape or Microsoft Internet Explorer 3.0 or higher, it occupies about 500-1000K of RAM.

Innovation in Navigation

Alexa does what good software should do helps you concentrate on the work you're doing, whether it's question you're pursuing or just browsing the Web. It performs the repetitive, boring tasks such as checking on site registration and ratings, so you don't have to. I think to the Alexa Toolbar as part of my browser, and don't want to work without it.

See http://www.alexa.com for more information.



three new search technologies but, says Tom Standage, Finding information on the Web should be easier with they still leave a lot of room for improvement

uality or quantity? That's the choice you have when you start looking for something employs a team of human editors to and there rought not be a link to the directory service like Yaboo, which page you need. But if you turn to a more comprehensive full text search Web pages on a particular subject. engine like AltaVista, which indisenminately indexes every page 11 can find, you'll most likely be deluged with an overwhelming quantity on the Internet Rely on select a small number of "quality" of matches to your query.

pages are most relevant with the help of clues left behind by other Clearly, what is needed is a middle way a means of ranking large nurn-bers of pages automatically. Three new search technologies attempt to do just rhat, by deducing which Web The first, called WiseWire, takes ntermet users

the direct approach of asking you to Iry o...t WiseWire's rating system

downloaded from work alexa com More information about the HTS algorithm deciveb eths ch/Wiww7, 1898/com1898.him Alexa (PC: Mac) car be

give each site you uset a rating from 0 to 100, by clicking on a score ban ratings are sent back to a central database, and are used to rank sites for subsequent users, who also prodisplayed in a frame alongside Your What happens when people get bored of clicking? at relies on vide their own ratings, and so on. But while WiseWire is simple, effecactive co-operation from its users. Mexa, another new search and tive and democratic.

navigation system, gers round this problem by recording users paths across the internet automatically Described by its makers as a "surf engine it's a piece of software that runs alongside your browser, providung extra information about each site you visit and suggesting related ared by analysing the behaviour of previous visitors to the saroe site which other sites did they visit, how long did they spend looking at each one? (The prospect of software unks These related links are generwatching your every move sounds scary but Alexa's makers insist all

users privacy is protected.)
But what if you'd rather not follow
in the footsteps of other Web users?
Hyperlink-Induced. Topic. Search trackuig is done anonymously, so

(HITS), an experimental search which sites are worth visiting for authors, by seeing which pages they thought were worth linking to. The University in coning the readers of Internet pages ogic works like this: the more Web more valuable the information engine developed by Dr Jon Klein junction with IBM takes ver another approach. Rather than ask information on a particular subject HITS cunningly asks the pages pages that link to a particular page, on that page is likely to be berg of Cornell

HotBot pages on a particular topic feed to HITS analyses the relationships within clusters of linked pages (since unk to each other) and gives each page a score depending on how many pages link to it, and how valuable those pages in turn are deemed approach neatly distinguishes between different meanings of the Greek god) and Apollo (the space programme) - as pages related to a particular meaning naturally group to be As an added bonus, this same word - such as Apollo (the

themselves tato separate clusters All three methods are coming soon to a browser near you. Lycos bought out WiseWire to April, and was granted a patent on its algo-

new techniques are a long way from doing away with the need to learn complicated search systax rules. It's the complexity of search syntax that is the real culprit behind the vast outhber of matches returned in most searches because most users can't be bothered to learn it s being used to provide the Related Sites" feature in Netscape tering and rating into AltaVista and laktome, the engine that powers rithm last week, Alexa's technology Communicator: and researchers are working to retro-fit HITS-like clus-But while they offer improve-ments over current search methods

Co-operative searching looks like being the next big thing in search engines over the next year or so, but for example, when it comes to it sharply focused queries, such as gearthmet for an unusual phrase to complete lyrea to a song filtimately, while they improve p the quality of results returned, these b none is perfect. They are all useless.

grail of Internet searching — a so-caded oatural language interluce. which would accept questions in plain Eoglish Now that really would be a great leap floward.

Return-Path: <quimby@antennapr.com> Date: Thu, 13 Aug 1998 12:00:54 -0700 (PDT) Subject: Interesting Article from Inquisit From: Quimby Mills <quimby@antennapr.com>

Here is the article again - don't know why it didn't come the first time. Enjoy!

Cheers,

Quimby

Inquisit watches hundreds of wire services, newspapers, and magazines for articles about the customers, competitors, products, and people that impact your business. Get your free trial subscription at http://www.inquisit.com

CONNECTED: Still looking for the holy grail Internet technology Finding information on the Web should be easier with three new search technologies but, says Tom Standage, they still leave a lot of room for improvement (Daily Telegraph London; 08/13/98)

Quality or quantity? That's the choice you have when you start looking for something on the Internet. Rely on a directory service like Yahoo, which employs a team of human editors to select a small number of "quality" Web pages on a particular subject, and there might not be a link to the page you need. But if you turn to a more comprehensive full-text search engine like AltaVista, which indiscriminately indexes every page it can find, you'll most likely be deluged with an overwhelming quantity of matches to your query.

Clearly, what is needed is a middle way: a means of ranking large numbers of pages automatically. Three new search technologies attempt to do just that, by deducing which Web pages are most relevant with the help of clues left behind by other Internet users.

The first, called WiseWire, takes the direct approach of asking you to give each site you visit a rating from 0 to 100, by clicking on a score bar displayed in a frame alongside. Your ratings are sent back to a central database, and are used to rank sites for subsequent users, who also provide their own ratings, and so on. But while WiseWire is simple, effective and democratic, it relies on active co-operation from its users. What happens when people get bored of clicking?

Alexa, another new search and navigation system, gets round this problem by recording users' paths across the Internet automatically. Described by its makers as a "surf engine", it's a piece of software that runs alongside your browser, providing extra information about each site you visit and suggesting related links. These related links are generated by analysing the behaviour of previous visitors to the same site: which other sites did they visit, how long did they spend looking at each one? (The prospect of software watching your every move sounds scary, but Alexa's makers insist all tracking is done anonymously, so users' privacy is protected.)

But what if you'd rather not follow in the footsteps of other Web users? Hyperlink-Induced Topic Search (HITS), an experimental search engine developed by Dr Jon Kleinberg of Cornell University in conjunction with IBM, takes yet another approach. Rather than asking the readers of Internet pages which sites are worth visiting for information on a particular subject, HITS cunningly asks the pages' authors, by seeing which pages they thought were worth linking to. The logic works like this: the more Web pages that link to a particular page,

the more valuable the information on that page is likely to be.

HITS analyses the relationships within clusters of linked pages (since pages on a particular topic tend to link to each other) and gives each page a score depending on how many pages link to it, and how valuable those pages in turn are deemed to be. As an added bonus, this approach neatly distinguishes between different meanings of the same word - such as Apollo (the Greek god) and Apollo (the space programme) - as pages related to a particular meaning naturally group themselves into separate clusters.

All three methods are coming soon to a browser near you: Lycos bought out WiseWire in April, and was granted a patent on its algorithm last week; Alexa's technology is being used to provide the "Related Sites" feature in Netscape Communicator; and researchers are working to retro-fit HITS-like clustering and rating into AltaVista and Inktomi, the engine that powers HotBot.

But while they offer improvements over current search methods, none is perfect. They are all useless, for example, when it comes to sharply focused queries, such as searching for an unusual phrase to find the complete lyrics to a song.

Ultimately, while they improve the quality of results returned, these new techniques are a long way from doing away with the need to learn complicated search syntax rules. It's the complexity of search syntax that is the real culprit behind the vast number of matches returned in most searches, because most users can't be bothered to learn it.

Co-operative searching looks like being the next big thing in search engines over the next year or so, but it's still a long way from the holy grail of Internet searching - a so-called natural language interface, which would accept questions in plain English. Now that really would be a great leap forward.

Try out WiseWire's rating system at: www.wisewire.com

Alexa (PC/Mac) can be downloaded from: www.alexa.com

More information about the HITS algorithm: decweb.ethz.ch/WWW7/ 1898/com1898.htm

(Copyright 1998 (c) The Telegraph plc, London)

via IntellX____

{A2:DailyTelegraphLondon-0813.00614} 08/13/98

This article was sent to you by an Inquisit subscriber who thinks you may be interested in subscribing to our service. To find out more about Inquisit, or to sign up for a free trial subscription, visit us at http://www.inquisit.com.

Delivered via the Inquisit(TM) business intelligence service. All articles Copyright 1998 by their respective source(s); all rights reserved.

NY - 0360

DAILY NEWSPAPER

THE NEW YORK TIMES

Circ - (M) 1,107,168 (8)1,644,128

NATIONAL EDITION AUGUST 13, 1998



Bacon's

3965: A

Where Sites Go to Die

Q. What happens to abundaned Web sites?
Do they stay on the Web?

A. Orphaned sites are a sad thing, indeed Ignored by its creator for whatever reason, a stranded page will just sit there until someone (or some program) deletes it from the host Web server.

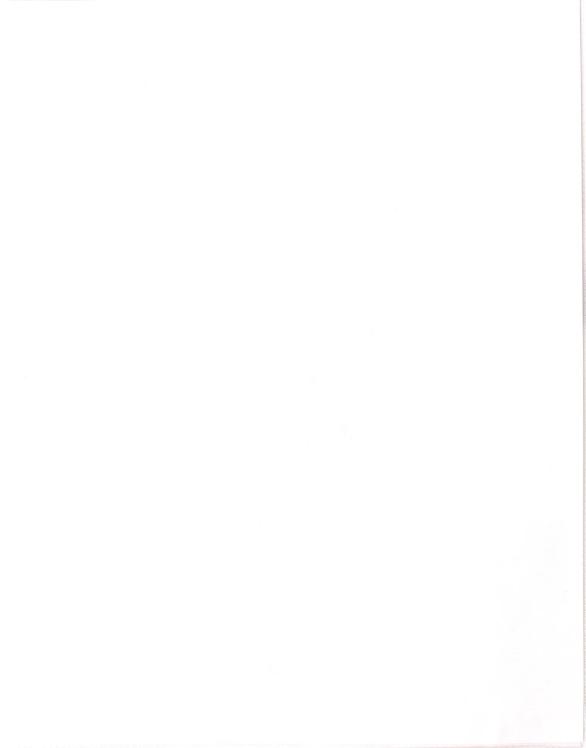
In some cases, the company that is the host of a particular site will pull the plug if the site's creator neglects to pay the bills or to update the site over a certain period of time. A once-popular page might be voluntarily shut down as its creator moves on to other things, leaving a dead end from another page that links to it.

The Internet Archive is an organization that is trying to find, record and store a copy of every public document on the Web, dead or alive (www.archive.org). The group's own site offers a link to a free program called Alexa, which runs with your browser. If a dead page is in the archive, Alexa can show you what it looked like.

For a humorous look at pages that once burned brightly and then flickered out, visit Ghost Sites (www.disobey.com/ghostsites), an active page that chronicles inactive ones and is updated monthly.

J.D. BIERSDORFER

Circuits invites questions about computerbased technology, by postal mail to Questions, Circuits, The New York Times, 229 West 43d Street, New York, N.Y. 10036-3599 or by E-mail to QandA@nytimes.com. This column will answer questions of general interest, but letters cannot be answered individually.



GET THE RED HERRING MAGAZINE!

HERRINGONLINE QUICK Go! SEARCH: Advanced search RED HERRING DNLINE

INSIDER NEWS

HEAD COUNT: ADOBE, WEBLOGIC, VITRIA. **NETSCAPE**

By Owen Thomas Red Herring Online August 14, 1998

Adobe's CEO stuck in the mud

What words does a chief financial officer never want to hear? "These expected results are unacceptable." That was the message Adobe CEO John Warnock sent out as he announced layoffs of 10 percent of the company's staff and canned CFO P. Jackson Bell. Robert Roblin, executive vice president of marketing, and Ross Bott, an executive vice president who headed up Adobe's products divisions, also felt the axe. Adobe told Wall Street it expected to post a loss after one-time charges, instead of earning half a buck per share, as analysts expected. The company blamed Asia for its financial woes, but Mr. Warnock's booting of the three executives and formation of a new executive management team to report directly to him makes it pretty clear where he's pointing the finger.

Adobe's only bright spot as of late has been its venture strategy.

Top VC to join WebLogic's board

Frank Caufield -- you know, of Kleiner Perkins Caufield & Byers fame -- has joined the board of WebLogic, a San Francisco-based Java startup. The high-flying venture capitalist, who's served on the boards of companies from America Online to VeriFone, invested in the company privately some years ago, but is stepping up his participation. For the company, Mr. Caufield adds another independent board member since Ali Kutav became CEO in June.

Here's the story on WebLogic's new CEO.

SHARE THIS PAGE

Email this page to a friend.

Get a printer-friendly version.

TODAY'S NEWS

Index Analysis: Red Herring IPO 100

Head count: Adobe. WebLogic, Vitria, Netscape

IPO Update: 24/7 does better than expected

Analyst Update: Sobering up after a selloff

A small-cap stock goes postal

In brief: GeoCities slammed on privacy violations

Lycos weaves tanaled acquisition web

Broadcom fills in its puzzle

<u>Inktomi</u> announces a streaming value-add

industry events RED HERRING **EVENTS** NDA

Insider News

RED HERRING

MAGAZINE

Herring Investor

Company profiles

Red Herring Direct

On newsstands now Current supplement

Archived issues Editorial calendar

Venture Market Herring on Hollywood Comdex Venture Forum Other events Register now!

MAGAZINE SUBSCRIPTIONS Subscribe Renew Gift subscriptions

EMAIL SUBSCRIPTIONS Subscribe Change address Unsubscribe

INFORMATION MARKET Top industry newsletters and publications

ADVERTISE!

CUSTOMER SERVICE

CONTACT US

ABOUT THE COMPANY

Subscribe!



Vitria's CFO a smooth operator

Usually, a tech company adds a CFO when it's eyeing the public markets. Vitria Technology's new hire looks to be more than a green-eyeshades man, however. Paul Auvil left a post at VLSI Technology, where he was vice president and general manager of the chipmaker's Internet Products division, to take care of Vitria's financial, legal, HR, and IT worries. Sounds like a load off CEO JoMei Chang's shoulders -- but why not give him the title of chief operating officer? That's closer to his job description, but perhaps it sounds a bit too lordly for the 80-person Java startup.

JoMei Chang started out as a researcher at heart.

Netscape hires away Oracle exec

Barry Ariko, an Oracle executive vice president and member of the executive management team, was recruited away by Netscape CEO Jim Barksdale to be his No. 2 man. That's surely a blow to Mike Homer, who was bucking for the COO spot himself, and instead got stuck with running the Netcenter Web site. (Remember, Mr. Homer noisily cancelled all of Netscape's content initiatives a few years ago -just as he's now noisily promoting the browser maker's content initiatives.) Mr. Ariko will have the more grown-up job of growing Netscape's enterprise software business.

Talent pool

PointCast CEO David Dorman brought on Pacific Bell buddy Robert Sofman as senior vice president of business development and international operations -- can you say "buyout scout?" ... Yoyodyne named Barbara Johnson its new COO ... Playboy Online tapped **David Lalich** as its senior vice president of marketing; he was formerly at Classified Warehouse ... Graham Smith is the new CFO at Nuance Communications ... Alexa Internet hired **Doug** Hansen to be its director of sales ... Lyn Chitow-Oakes, formerly at Electric Communities, has joined Flycast as its VP of marketing ... Influence Software, a knowledge automation startup, has hired Steve De Marco as VP of sales and marketing and Jose Morales-Correa as professional services VP ... Debra Chrapaty, ETrade's chief information officer, has been named president and COO of the online brokerage's ETrade Technologies unit ... Rod Canion, Compag's cofounder and former CEO, sent the stock of GK Intelligent Systems into a freefall

Quando looks like an Infoseek bargain

In brief: Adobe bleeds bad news

GeoCities IPO strong, but hamstrung by market

RED HERRING DIRECT

Enter your email below and receive regular updates from The Red Herring Online. It's FREE!

Sign up!

SAVE 29% AND GET \$6 IN CYBERGOLD!

Subscrit to The Red Herring
Enter your full name below and provide the subsequent required information to subscribe to The Red Herring and save 29 percent off the basic rate.

Subscribe!

1998 WORLD

Don't miss out! Check out the full line of 1998 Red



when he left the board in a huff -- he also took several former Compaq employees with him.

Do you know who's in, who's out? Give us a shout.

Herring Events.

INSIDE

Important information for industry insiders that you won't want to miss is available in The Information Market. This month, we're featuring The 1997 IPO Report from VentureOne along with other valuable newsletters.

© Herring Communications



8/14/98

Baconis

Never Forme

Post In Haste, Repent At Leisure By J.D. Lasica

gabytes have been written about the digital revolution, but little attention has been paid to one of its most potentially profound social changes: The Internet doesn't forget.

Memories fade, but electronic archives are turning fleeting anapahots of our past lives into permanent records that may follow us forever.

And that has enormous consequences for us as communicators, journalists, and entizens

The common perception is that the Web is a fragile creature filled with dead links, "404 Not Found" error messages, basty emails, and other transient digital debris. Indeed, leading figures on the Net have bemoaned the wholesale loss of the Web's early years, such as many of the political sates devoted to the '96 election.

But efforts are under way to change all that Brewster Kahle of San Francisco, inventor of several internet search enguies, is trying to collect, store, and catalog the entire World Wide Web and all 33,000 usenet newsgroups

Kahle's nonprofit Internet Archive and more recent Alexa project are out to become the modem contralent of the Library of Alexandria: the repository of all the world's public digital information. To date he's copied and stored some 8 trillian bytes of words, images, and sounds (compared to 20 trillion in the Library of Congress).

"If we don't organize the Internet, people will tune out all the noise. They'll settle for calling up 10 channels, and we'll just have television on the

Kahle-who has cooperated with publishers to iron out copyright issues-and others seeking to organize and preserve the internet deserve high praise for making its riches more accessible. But we all need to raise our awareness of how such efforts are also shrinking the sphere of personal privacy

Cautionary Scenarios

Consider three areas

. Job Hiring: Applying for a new job? There's a

fair chance your prospective employer will use a search engine to scout out your online writings. from prosaic travel pieces to hot-tempered postings to a political newsgroup. In a recent discussion on the online-news listsery, a mailing list of more than 1,000 news professionals, several employers-including an editor at the San Francesco Examiner-said they routinely scour the Net to gauge the habits and personalities of job candidates. That drew an impassioned rebuke from Marie Cowly, a freelance writer in Woburn, Massachusetts, who was unaware that her postings to the group had been catalogued for all the world to see. 'When I typed my name into a search engine and found everything five ever written online, it was a little like coming home and finding someone had gone through my personal belongings," she says. "I felt violated and helpless."

Lake it or not, such online steuthing is here to stay. Used judictously, the Net's search capabilities offer a valuable tool for cutting through the spin of a resume and selective clips, ultimately providing a fuller picture of a job candidate's qualifications. But employers tread into unethical waters if they begin probing someone's political or religious beliefs, sexual orientation, arritates toward unions, or quirky personal hobbies. My fear is that even the most fair-minded managers will have their judgment colored.

· Background Checks: Until now, journalists have generally respected the private lives of ordinary crizens. Will the new culture of information saturation-where personal lives become public fodder-reshape our journalistic values? When we write about an interview subject, how deeply should we prote the foibles, mistakes, musings. and indiscretions of a prominent attorney, pastor, civil servant or teacher? Do we redefine what is newsworthy because scraps of a person's past have become immortalized in a cold unforgiving. easy-to-link-to distitul archive?

And what of politicians-do we hold candidates for public office up to a more exacting stan-

August 14, 1998 - Mention MicroTimes

Alexa's Brewster Kahle: "If we don't organize the Internet, people will tune out all the noise. They'll settle for calling up 10 channels, and we'll just have television on the Net."

dard? Kahle muses, "It's likely that the president we elect thirty years from now already has a Web page up, posted from his college dorm, and future journalists and pundits will have a field day poring over his college age musings." Will we be able to resist?

· Digital Footprints: Anyone who communicates on the Net, including journalists, should be aware that they may be leaving permanent digital footorints, available not only to potential employers but to neighbors, strangers, landlords, rivale. enemies, future lovers, descendants not yet born. This can be both blessing and curse

For many of us, it would be marvelous for our grandchildren to summon up our very first home page. For others, whose online forays may not be the stuff of posterity, a gentle forgetfulness would be far linder. But that may no longer be nomble The digital actic has begun collecting and storing bits and acraps of our lives. There will be no yard sales, no chance to tess out the useless clutter. The Net has forgotten how to forgot.

Copyright © 1998 by J.D. Lasten. All rights

This column first appeared in the June 1998 Issue of The American Journalism Remow.

opinica

Velo Builder Palo Alto, (A

Making a

Killing

by Michael Swaine

After the "killer apps" of the '80s—those category-creating, industry-changing applications like the electronic spreadsheet and the desktop publishing program—it made sense to look for the killer sites of the '90s. After all, the Web was the successor to the desktop, thus "killer sites."

Trouble was, there weren't any—except maybe for something called "portals." Which turned out, on close examination, to be metcly the latest wrinkle in those all-too-familiar List of Links to Other. More Interesting Sites.

I'm beginning to think that the next killer thing won't be a thing. The Net isn't a thing place; it's about connections if it's about anything at all. It's connections that make the Net, the Net. And it's connections, of one kind or another, that will bring us the bright ideas of the next decade.

I suggest we start watching for killer synergies

For example, suppose you deconstruct the functionality of a Web browser and incorporate it into your operating system. After all, browsers were never application software anyway. Word processors, spreadsheets, database managers, and DTP programs all have specific functions: they read, print, display, and allow the editing of data in specified formats. Browsers can't edit and have notoriously bad printing support. A browser is a bundle of technology, not an application.

So why not unbuildle the browser's technology and inject it into the DNA of the operating system? All your application programs suddenly acquire browser capabilities. In the next

release, anyway. Brilliant idea. Great synergy.

And if it happens to get you sued by the Justice Department, that doesn't make it bad technology. Another example: Netscape took way too long to recognize that its browser wasn't a viable long-term revenue source, and they've suffered sorely for their tardiness. But Netscape did see early on the synergy between its browser and its Web site, and exploited it. A huge amount of traffic flows through Netcenter (http://home.netscape.com/netcenter/), much of it because that's Netscape Navigator's default start page. That flow translates into megabucks in ad evenues.

OK, I'm talking about portals again, but this time I'm suggesting that we see the genius of the browser-portal chemistry rather than the dullness of a corporate strategy based on users being too lazy to change their default start pages.

The synergy rather than the lethargy.

Netscape has now launched a new version of Netcenter, with even more browser synergy. So far, the government hasn't noticed. Maybe killer synergies aren't what put you in the Justice. Denartment's siebts.

A final example: One of the technologies showcased on Netscape's renovated site has its own synergy. Netcenter's "What's Related" button provides a list of sites that are conceptually related to a given site. There are a lot of variations on the search engine theme, but it would be a mistake to think that this is just another one.

Netscape developed this feature with Alexa Internet, the company that has been constructing a mind-bogglingly large archive of the Web for some time now. Brewster Kahle is the brain behind the archive, a unique and expensive body of content which he has combined with clever technology for exploiting it to create Alexa (http://www.alexa.com). The genius of this synergy is that no one, without intimate access to the same content, can do anything quite like Kahle has with Alexa.

My guess is that the killer ideas of the near future will also be clever synergies of rich databases with custom software for exploiting the data. And they won't all belong to Microsoft or Netscape. Deliver something that nobody else can. Now there's a business plan. ◀

I'm beginning to think that the next killer thing won't be a thing.



If you have questions, comments, news or suggestions, please e-mail them to inorris@nor com, PAX (905) 641-1648 or mail them to our St. Calharines office

This department and back issues appear at the Canadian Musician website at www.canadianmu** 139 com



ultimate travel planner

On the road again? It seems we're always travelling somewhere — on four, signing record deals, publicity junkers, trade shows, holidays (yah ngnt) Needless to say, the most successful trips are preceded by some careful planning. So fire up your browser and left's begin.

All arrines have web sites and to find the one of your choice, look in Yahoo (yahoo, com). They will list schedules and fares and in many cases you can book flights online at their site. Many airports also have sites and will help you with facilities ground transportation and connecting flights.

Most of the major car and truck rental companies can be found on Yahoo and rates and booking information is available. All major hotel chains have web sites and you can find their locations, hotel facilities and make reservations online. Smaller hotels, inns and bed and breaklasts can be found by looking up the specific cities and searching for accommodations. For worldwide listings, check out The Hotel Guide at www.tiledudes.com/index.html

To check the Canadian dollar against foreign currencies, use the Currency Converter at www oanda.com/ cgi-bin/ncc.

To decide what to pack, visit The Weather Channel at www weather com. Check current conditions and the five-day forecast for cities around the world.

If you look up particular cities in Yahoo, you can get information on accommodations restaurants, entertainment transportation and focal serv-

ices. City and regional maps can be found at Yahoo Maps (maps yahoo.com/yahoo/) or at Pathfinder (www.pathfinder.com/travel/maps/)

It you are having trouble getting along in foreign languages, try the online translator at dictionaries.travlang.com/.

You can also find local music stores, rental companies, and sound and lighting companies by seraching by cily and under the relevant headings in Yahoo.

For more travel resources, visit The Music & Audio Connection (musicandaudio.com) and look under Resources-Travel

Travelling will never be completely stress-free but a little Web browsing can take away some of those nasty surprises.

Resources

, Yamaha Canada has premiered their website at yamaha.ca. Here you will find company background, product information, education programs and links to Yamaha worldwide.



It you are looking for a Canadian 800 number into it call the operator anymore. Visit Canada Tollfree / canada tollfree is suppartice of Canada Tollfree / and search for fistings by business name or keyword. Find U.S. 800 numbers at AT&T's director at liven bollfree at Intel 600 numbers.

To locate shareware and freeware visit File Dudes at www tiledudes com/index html. Search their site by operating system or by program name or description

To put more direction in your web travels. Ity Atexa free for download at www alexa com This desktop utility suis at the bottom of your web browser and gives you extensive information on sites with related content. You can search through their archives to find pages that no longer exist and locate websites by subject on the Encyclopedia Britannica site.

If you are attending the AES Conference in San Francisco, wish the Audio Engineering Site at www.aes.org. You will find exhibitor into mation, events schedule, hotel information and legistration details.

The Connection Software Center was established by Norris-Whitney Communications in conjunction with e-Warehouse. The Center features over 30 000 software titles on business, fi-

nance, entertainment, graphics and design, Internet and utilities. The site offers fast and secure online processing and real-time inventory status and features boxed and downloadable software. Visit at macc.com/software.

Fender, one of the best M.I. sites around, has recently revamped their website. Featured are products, company info, artists, The Fender Club and Fender apparel. Drop in for a visit at www.fender.com

Norris-Whitney Communications operates The Music & Audto Connection, the international online resource for music enthusiasts, musicians, music and audio protessionals. Included are classified ads, products for sale, company showcases, official solutions music editination, music & audio resources, career information and title intoraries. Lipidates to the site are available by e-mail or on The Pointgast Network Visit at musicandaudio com. For more information, e-mail to info@hor.com. FAX (905) 641-1648 or call (905) 641-3471.

128 - 115

MAGAZINE ALLEYCAT NEWS

New York, NY

Circ - 12 000 Monthly Comb. Jul/Aug

AUGUST 15, 1998

Baconis

Month in Review

miscellany

V.Cast Wins Patent

V-Cast Inc. (www.vc.ast.com), makers of the file delivery service GigEx, has received a patent for its client-server file delivery technology for delivery of online information and data. The patent covers fundamental areas of Internet file delivery, including "piish," recoverable download, background delivery, scheduling and confirmation The U.S. Patent and Trademark Office issued V-Cast patent number 5,768,528. In addition, the patent relates to a graphical channel selector interface which includes multiple chappels and a resizable

serolling ticker. V- Cast's chems include Alexa Internet, CMP Media Inc. IFAX Communications, the New York Times, Panasonic Games, Time Warner and Release Sofiware.

Morrison & Foorster Expands Venture Capital Practice

In an effort to increase its capacity to represent early stage and technology companies, the law firm of Morrison & Foerster LLP has taken on seven attorneys from the recently disbanded corporate finance firm Ziment, Haities, Friedman & Kaplan Charles

Friedman, who specializes in mergers and acquisitions and venture capital financing, joins Morrison & Foerster as a partner Former Ziment partners Isabel Wacker, Marjorie Elkin and Ross Hyanis have signed on as Of Counsel. tasa Jill Brovender, John Cleary and David Henkoff have taken positions as associates Morrison & Foerster's New York practice, which hosts a new media luncheon serius, has been an aggressive prosence in the Alley Over the last two years, the littly has added 34 lawyers to its enriporate finance

people, places, & happenings

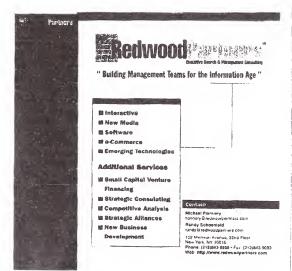
In its continuing efforts to assert itself as a player, Wit Capital (www.witcapital.com) is beefing up its

management team. Bob Lessin (former Salomon Smith Barney vice chairman),

who joined Wit last month as chairman,

is also assuming the role of CEO Similarly, Ronald Readmond, former vice chairman of Charles Schwab & Co. and previously a director of Wit Capital, will now assume the role of Wir's president and chief operating officer Tle will also have the inte of vice channom Wit has also lared William Tkacs, who founded the private transaction group for Cowen & Co , serving as head of private equity Matthew Carbone is joining the firm as a senior investment banker and brings with him a team of professional, from his previous position as semor vice president at Salomon Smith Barney Larry Forrest assumes the position of executive vice president He is also a director of the company and president of its broker dealer subsidiary He was previously the chief operating officer at Brown & Co and before that an executive with Bankers Trust, Paine Webber and Dean Witter,

Also moving over to Wit is Beth Polish, formerly a member of the very wrive KMPC team working in the Alley, who will serve as Wit's serior vice president and head of corporate development. The move is not Pubslix first foray into a stirt-up. She was formerly the thief biancial officer for Willage, where she was responsible for raising the cumumonity company's first major round of financing.





St. Catharines, ON Circ - 13.000 & Times/Year

AUGUST 15, 1998

Baconis



Welcome to Andio Online, a regular department of PS, featuring news and highlights of audio online including the Internet, the major online services and music related 885s. If you have questions, comments, news, or suggestions, please c-mail them to morris@nor com, FAX (905) 641-1648 or mail them to our St. Catharines office



America Online Update

Tyciy few weeks, I get a disk from America Online and they usually get missed. -41 have been a member of Composerve and AOL off and on since 1982 but I Agenerally do not recommend any of the Online services for Internet access herause of the cost. The offer said 100 free hours so I thought, what the neck. The installation was a snap. It came on one diskette and after entering personal information, including a credit card, it dials an 800 number and prompts you to choose a local access number. It then reconnects and you are online. Any additional components or updates that you need, including their web browser, are downloaded automatically as required. Navigation once online is very friendly and you have the choice of several subject-specific Chainnels or search capabilities

There are two main reasons to have an America Online account, possibly in addition to your regular account with a local provider

(1) The quality and organization of the content is superior to most websites out there since it is a paid service

There are extensive areas on business, travel, computers and software includng The Mac Software Centre whicle is a homonza for Mac users

There are also are as focused on modio and music. For example, Digidesign has own area with a message board, software und information on all of their products The PC Music and Sound Forms includes extensive MIDI resonaces, downloads and information on MIDI products.

(2) If you travel a lot with your notebook, you can use AOL for your local accase. They provide local access to 1500 cities in over 100 countries. Your local provider confedo that. You can at least receive and send mad but might and day surfing will cost you big bucks

So next time you get an AOL disk in the mail, give it a try for the trial period or download the software at http://www.pol.com. You might find it a great online resource. There must be a reason why millions of users have made a the largest single group on the Internet

Fentler, one of the best M 1 and pro audio sites sround, has recently revamped their website. Featured are products, company info, artists, the FenderClub and Fender apparel Drop in for a visit at www.fonder.com

If you are attending the AES Conference in San Franciscu, visit the Audio Engineering Suc at www.aes.org. You will lind exhibitor information. events schedule, hotel information and registration details

To put more direction in your web travels, try Alexa, free for download at www alexa com This desktop utility sits at the bottom of your web browser and gives you extensive information on the site you are visiting and recommendations on sites with related content. You can search through their archives to find pages that no longer exist and locate websites by subject in the tincyclope. dia Britannica site.

Steinberg North America has moved their website to www us. steinberg net Featured are sections on their whole range of products as well a complete dealer list

If you are attending I.DI in Phoenix this year, visit

their website at www.etcenye.net/lebbonie.htm. You will find infurmation on exhibitors, workshops and special events and you can register online

If you have access to a browser, but not to e mail, ooc answer is Hotmail at www hormail.com. For metence, I am weiting this column at Kinko's in Nashville and their machines do not have Internet e-mail capabilities and I need to get the file to nor office Enter Hotmail For Iree, you am set up an e-mail account where you can send and retrieve mail from your browser and keep a personal address book. You can even set up 4 POP in hum o may been need you see that or stringer light home or the office, he receives your POP mad instandy and in a formal that is superior to most cmail programs fry nour

Canada One is an extensive husiness resource site nimed at Canadian business. Ande from the wealth of information on business insquagement and promotion, you can also list your own website. Visa at www.canadaone.com

Norres Whitney Communications operates The Music & Audla Connection, the international on-line resource for music enthusiasts.



musicians, music and autho professionals. In chided are classified ads, products for sale, company showcases, discussing for unga, associations. music education, music & audio resources, career information and file libraries. Updates to the site are available by e-mail or on The Pointcast Network Visit at musicandaudin com For more formation, c-mail to tofok nor com, I-AX (905) 641-1648 or call (905) 641-3171

CT - D100 DAILY NEWSPAPER

RECORD - JOURNAL Meridan, CT

Circ-(M) 27,877 (8) 28,421

AUGUST 16, 1998

Bacon's

Where do Web sites go to die?

New York Times News Service

Q. What happens to abandoned Web sites? Do they stay on the Web? A. Orphaned sites are a sad thing, indeed, Ignored by its creator for whatever reason, a stranded page will just sit there until someone (or Komo program) deletes it. from the host Web server. In some cases, the company that is the host of a partieular site will pull the plug if the site's creator neglects to pay the bills or to update the site over a certain period of time. A once popular page might be voluntarily shut a down as its creator moves on to other things, leaving a dead end from another page that links to h.

The Internet Archive (http://www.archive.org) is: an organization that is trying to find, record and store a copy of every public docu-ment on the Web, dead of alive. The group a own site offers a link to a free program called Alexa, which runs with your browser. If a dead page is in the archive, Alexa can show you what it looked like: For a humorous look at pages that once burned brightly and then flickered out visit Ghost Sites (http://www.dispbey.com/ ghostsites), an active page that chronicles inactive ones and is updated monthly.



John McCormick

Serious about surfing? Try out these browser alternatives, plug-ins



Faster Internet connections do make a difference for serious Web searches, but software helpers can be even better. Software is easier to acquire and install than, say, buying and setting up an Integrat-

ed Services Digital Network link.

If you have to wait for what seems like forever to get to hot links, try a browser accelerator. These handy utilities store locally the puges you most recently visited. A browser accelerator's best feature is its ability to preload pages.

Browser accelerators copy to your PC's hard drive or memory the pages for links on a Web page as you're browsing How much of a biost you get depends on how fast you read, how many links the page has and whether the software downloads the link you want before or after you click on it.

Most accelerators operate as proxy servers, inserting themselves between your Microsoft Windows browser and the Internet. You might shudder at the thought of adding yet another software layer—and with good reason. Proxy servers introduce new bugs, require configuration and support, and might make your system crash more often.

Pedal to the metal

Even so, I like using Go Ahead Got It from Go Ahead Software Inc of Redmond, Wash, a non-proxy-server accelerator with lots of performance-enhancing features. Read about it at http://www.goahead.com.

Go Ahead Got It preloads pages you visit frequently along with pages you specify. More importantly, it lets you know when a page has changed; most other accelerators just speed up your views of old datu.

My tavorite search engine is Yahoo, but others have different strengths. AltaVista, Lycox, WebCrawler, Excite and Infoseek ure all general search eigines, and there are country- and topic-specific search sites, 100.

For serious research, try http://www. isleuth.com/. The Internet Sleuth site lets you search all the general search sites simultaneously or choose among 3,000

others.
This single site has thousands of categories, each of which can connect to muluple databases. For example, the arts and humanities category covers architecture, art, genealogy, history, humanities, literature and performing arts, plus subcategories.

Under government, there are far too many agencies and categories to list, each

sers a new interface and save time i

POWER USER from Page 55 letting you search multiple databases simul.

-536=

raneously,
Perhaps you're a beginner and can't
perhaps you're a beginner and can't
decide where to enter or how to get around
decide where to there are easter alternaonce on the Web. There are easter alternainves to the ubiquitous Microsoft Internet

NeoPlanet, a full-blown alternative perfect

Explorer and Netiscape Navigator browisers keep in mind that you will need to use one of the two at least once to download an alteranche browser, unless you can talk someone else into doing it for you.

for novice or occasional users. NeoPlanet, created by Bigfoot. L.P. of New York, isn't a rune browser. It simply puts a new interface or inferent Explorer to hide the most frustrators aspects. Agency administrators who load Neo-Agency administrators who load Neo-

planet on their new users' computers will

spend a lot less time in support and training.

Another alternative Webt morigator suitable for internediate or advanced users is Algebaninement, a http://www.oleca.com. Instead of internet, a http://www.oleca.com. Instead of cephacing the Physiport interface, the Sam Farriesso company's informative tool bar gives more detailed informative tool bar less more detailed informative tool bar less and a nothine encyclopedias.

It has an online encyclopedias, chainmary, thessums and a tool to help users frach "404 these and tool to help users frach".

For sore eyes

mal way.

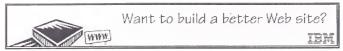
Not Found" sites they can't reach in the nor-

The last feature relies on Alexa's archive of more than 500.000 Web sites. It isn't infallible, but often a desired page is only temporariy unavailable because a server went down or the periodic site-locator upload file left it out

Comettimes a site no longer exists, of course, but all the user wants is to read some information from the first screen. In both information from the first screen. In both cases, the Alexa Archive can be a lifesaver. The tool bar takes up screen room, but you can collapse ti or close it selectively. Even if you must download the ISM ALEXAETUP (4)X.EXE file over a slow dial-up connection, the 10-minute installation is

worth it for senous suiting.

John McCormich, a free-lauce writer and John Cormich, as been working with computer constitutin, has been working with computers since the early 1960. E-mail him at powerties (Brain com



TXSeries Has All The Right Tools. Click Here.

Copyright © 1995-98 CNET, Inc. All rights reserved. Privacy policy.

DAILY NEWSPAPER THE PLAIN DEALER

OH - 0200

Cleveland, OH

Circ - (M) 383,586 (S) 508,787

AUGUST 17, 1998

A computer screen in your glasses? 3985-A

ative thinkers gathered in California's Silicon Valley recently to describe and show off their latest ing couch that tells you when your nap is over to a part of eyeideas, which ranged from a talk-Some of technology's most cre-

- sent researchers to the New Paradigms in Computing annual conference at IBM's Almaden Re-Companies that usually see Hewlett-Packard, Apple and IBM themselves as competitors — in-cluding Microsoft, Xerox, search Center in San Jose.

Some researchers showed off their latest gizmos, while others just talked about them.

who organized the event, talked about a world where they computers are everywhere, all responding to humans' needs or wants -keeping clothing comfortable and

> vent Digital Equipment Corp.'s successful VAX minicomputer, ✓ Gordon Bell, who helped in-

doing blood tests without finger pricks.

urging, "Come, let me pump you talking couch and a "digital coach" exercise machine that prodded a user on with a drum beat and the voice of an Arnold trainer His contributions included the Schwarzenegger-style described a "guardian angel" that you'd wear on your wrist that would have sensors to keep track

crosoft's research lab, is working on a "cyber admin" that would

ments of memory.

sulin levels and would alert you

of blood pressure, heart rate, in-Bell, now working at when something goes awry.

company, Extempo. A dog named Max and a wizard named Merlin up...

Zarbara Hayes-Roth, known for her work in artificial intellidemonstrated software agents being developed by her were among the characters Extempo designed to make working with a computer more like working with a person. gence, v Brewster Kahle, inventor of the landmark WAIS program for finding documents on the Inintelligent Internet navigator in-tended to learn from users. ternet, described the newest invention of his company, Alexa: an ~ Ted Selker, the IBM fellow catalog everything you read and could call up anything from frag-

at the Massachusetts Institute of rechnology media lab, showed off V Thad Starner, a researcher the funny, thick eyeglasses that also work as a computer screen.

"They're actually fashionable frames from France" said Starmer, who has been wearing the computer glasses for the past

cord to a nand-held keyboard called the Twiddler, which is the The glasses are connected by a Stamer carried the keyboard in one hand and carried a credit card-size computer with a Pensize and shape of a hot dog bun tum processor in the other TWO MONTHS

the glasses, Starner can take Using the computer and lookurg into a tiny screen embedded in search the Internet - essentially do most anything you can nornotes, read and answer e-mail

Starner. "The desktop and laptop of will go away because this is much of Starner. "The desktop and laptop "There's no reason you have to better for your eyes and bands have a desktop machine." mally do with a computer.



ADWEEK/August 17, 1998

ON THE MOVE

▶ COLORADO

Customer Communications Group promoted Sandra Gudat to president and chief operating officer. Gudat was previously a senior vice president. The Denver-based relationship marketing company also hired Jody Wagner as director of publications sales

NORTHERN CALIFORNIA

Brian Gale was named vice president and general manager of Schulbe Media Works in San Francisco.

Citigate, San Francisco, hired senior art director Frank Doyle, managing supervisor Monica Bahner and copywriter Ellen Scheetz.

The 3DO Co., a video game company in Redwood City, hired Lauren Ward Larsen as vice president of marketing. Most recently, Larsen served as vice president of marketing for Wadsworth Publishing.

Douglas Hansen joined San Francisco-based Alexa Internet, a free Web navigation service, as director of advertising sales.

The Herlihy Marketing Group in Oakland promoted Jeffery Tarran from vice president to president.

Haves Marketing Communications in San Jose hired Dawn Sansone as an account coordinator and Ryan Mahar as a graphic designer.

Leslie C. Wilson, most recently of Leagas Delaney in San Francisco, joined DanaForan Marketing Coinmunications in Sacramento as an account management executive.

Shugart Matson Young in San Ramon appointed Steven J. Davison vice president, media director.

Splash Technology in Sunnyvale appointed Michael Orr vice president, sales and marketing.

Mitch Zak joined Stoorza, Ziegaus, Metzger & Hunt's Sacramento office as a campaign manager.

Eric Benjamin, national sales director of the Advocate/Weekly Newspapers, has been appointed president of the board of directors of the Alternative Weekly Network in Sacramento.

Curious Pictures, a bicoastal, liveaction graphics, special effects and animation studio, named director/designer/ animator Denis Morella creative director of its San Francisco office and promoted Holly Edwards to senior producer.

Steven Thompson was named associate publisher of Ziff-Davis' Internet Business at the magazine's San Francisco office.









Northern California



KEITH DANZIGER VIVIAN EGASHIRA Oregon Washington

▶ OREGON

McClenahan Bruer Communications, a Beaverton-based advertising and public relations agency specializing in high-tech accounts, hired Helen Connor and Keith Danziger as senior counsels.

SOUTHERN CALIFORNIA

VirtualMagic Animation in North Hollywood hired Jan Nagel as director of business development and marketing.

Saatchi & Saatchi in Los Angeles promoted Kathy Evers to account executive and William Brown to account coordinator The shop also hired Kimberly Craig Smith as senior copywriter on its Toyota Dealers Associations account.

Survivair, a Santa Ana-based manufacturer of industrial respiratory protection equipment, named Kirk Thompson sales manager for its Southwestern territory and Luci Rasmussen advertising and promotions manager.

Matthews/Mark, San Diego, hired three new employees: Eleanor Novak, media supervisor; Sara McCandless, assistant account executive, and Todd Smith, account coordinator,

The Townsend Agency in San Diego added four members to its public relations team: Sarah Thailing. account executive; Bridget Stachowski and Justin Silbaugh, assistant account. executives; and Patti Zamora, public relations coordinator.

Doug Yates was named vice president, marketing, at Fox Kids Network in Los Angeles.

Fox Family Worldwide, Los Angeles, recently established a consumer products division, headed by executive vice president Elle Dekel,

JSM+ Communications in Santa Monica promoted leff Corvell from associate media director to group media director.

Ad-Star Services, a provider of remote ad sales solutions in Los Angeles, hired Adam Leff as chief operating officer and vice president.

Producer Scott Gardenhour was named president and chief executive officer of The Farm Studios. The West Hollywood-based production company also signed directors leff Gorman, Gary Johns and Ramaa Mosiev

Big Bang Media in Los Angeles hired lay Cole as executive vice president of marketing.

Paulette Wilhelmy joined direct marketing agency Walter Latham in Newport Beach as executive vice president, managing director.

Lorenz Advertising in San Diego hired Wartin Roesch as a project designer.

Morgan Marketing & Public Relations in Irvine hired Mike Buonauro as an account coordinator.

▶ WASHINGTON

Vivian Egashira was promoted to vice president/general manager at Hinton and Steel Advertising in Seattle.

-compiled by Gregory Turner





Do You Want To

Deliver Your Training Online?

Click here to learn about total training solutions.

Today's News
Table of Contents

Archives

Contests

SEARCH

Site

Tech Dictionary
ISP Database

Tech Support

Advertisement

CAREERS iWANTanewJOB

Training Directory

HELP DESK

Tech Know Support Forum

Consultants
User Groups
Y2K Info

SHOPPING

Software Shop Game Store

NetQuote

ISP QuickQuote

BookPoint.com Classifieds

FairMarket Auction

DOWNLOADS

Share/Freeware
CCI SiteShare

<u>GameGrabber</u>

Net Surfer

E-mail Story

Printer-friendly version

First Published August 18, 1998 Bay Area Edition

Netcenter: A Portal to The(ir) Web

Like other portals, Netscape's is woven of partnerships



by Elizabeth Crowe

Just when you thought it was safe to surf the Web, portals came along. A portal is a glorified list-o-links page, where Web sites are gathered under categories or channels so surfers can quickly find information on, say, dog breeds or Beanie Babies. Excite, Yahoo!, Infoseek, and Lycos were once competing search engines. Now they have evolved into competing portals, adding services such as e-mail, chat, forums, and news and partnering with other companies to provide some of the content.

It's not a bad concept. Just remember that the objective is to provide enough information, services, and goodies to keep you there--or at least keep you coming back--so the portal provider can sell advertising based on the traffic it generates. If your portal lets you develop a personalized page, the portal companies can even target ads to your apparent interests. (For the consumerist perspective on portals, see this issue's <u>User Outlook</u> column.)

The latest entry into the portal arena comes from Internet ur-business Netscape. Its Netcenter is the revamped, revised, and reprogrammed site that appears as your default Web page when you launch a Netscape browser, click the Netscape logo in the upper right-hand corner of your Navigator browser, or type www.home.netscape.com or www.netcenter.com. Like other portals, Netcenter features a membership directory and edited categories of links, e-mail, forums, search engines, and goodies that work with the newly released beta of Netscape Communicator 4.5. Also, like any portal, Netscape hopes to convince you that the Internet and Netcenter are the same thing.

The July debut of Netcenter 2.0 (and the companion upgrade of Communicator 4.5) generated a lot of heat and a bit of light. It's either the best thing since sliced bread for new Internet users or the most nefarious commercial exploitation since long-distance service slamming, depending on whom you believe. At least investors seemed to like it: Netscape Communications Corporation stock price vaulted 53 percent the day after Marc Andreessen told CNN that the company was talking to media companies about publishing content on Netcenter to give its portal more appeal. Personally, I feel that

LINKS Links of the Week Web Site Reviews

<u>HotLinks</u>

ABOUT US
Contact Us
How to Advertise

CCI Partners

MAGAZINE
Subscription
Print Advertisers
Online Advertisers



different from Netscape's attempt to direct you to an online portal with NetCenter. Take a close look at Netcenter and you'll see the shape of portals to come.

Getting Around Netcenter

Navigating the site is fairly easy. Netcenter provides links back to the main areas (WebMail, Member Center, etc.) along the top of each page, a list of the channels at the bottom of each page, and links to a site map and general information.

The opening page of Netcenter has a search engine box where you can choose the engine you want and type your key words. It also has a listing of the 17 channels Netcenter currently provides, news headlines from ABCNews.com and Netscape corporate headquarters, links to weather and horoscopes, and other doodads. In the future, Netscape will let you choose the channels and headlines you want to see when you launch your browser, as Excite and Yahoo! do already.

My one peeve with Netcenter's home page is apparently unavoidable. Periodically when I surf to the home page, a separate browser window will open and show an advertisement. It's annoying to have to close this window before I can use the portal page.

The Privileges of Membership

Most portals ask you to fill out a preferences form. Then they can create a cookie that will personalize the opening page for you. Netcenter wants a little more commitment out of you. It offers access to certain services-such as Professional Connections, the Netcenter Member Directory, and Netscape WebMail-only if you sign up as a member. The required personal information is relatively innocuous: your name, e-mail and snail-mail addresses, and country of residence. Of course, once you become a member, you become easier to target. As Netcenter's own Member FAQ says, "Registration ... enables Netcenter services to be personalized to your liking."

When I first tried the Netcenter site in its beta stage, I had to jump through a lot of hoops to register, including taking out a Verisign digital certificate. Netscape apparently relaxed that rule later. A friend who recently signed on didn't have to get a certificate. However, you still have to remember your ID name and password to use the members-only areas of Netcenter.

Netscape claims that registering will not result in unsolicited commercial e-mail. The Netcenter Privacy Policy states, "We will not provide such information to companies you have not interacted with, and we prohibit the companies that get such information from selling or redistributing it without your prior notice."

Click the Members icon at the top of the opening page to enter the Member Center. Here, Netcenter lets you look up other Netcenterians and read their may not know how to change this default, but all it takes is a couple of clicks to reassign the start page. (Choose Edit*Preferences*Navigator and change the entry in the Location box.) You can always get back to Netcenter by clicking the Netscape logo in the upper right-hand corner.

On the other hand, if the browser's default page has good links and information and can be customized to your interests, you may not want to change it. Netscape's betting on that.

© 1998 Elizabeth Powell Crowe. All rights reserved.

Contributing editor Elizabeth Crowe specializes in online services, online research, and information brokering. She's the author of The Electronic Traveler, Information for Sale (with John Everett), and Genealogy Online, Web Edition. You can reach her via libbi_powell_crowe@bigfoot.com or care of Computer Currents.

Archives for Net Surfer

RETURN | TO THE CURRENT LIST OF COLUMNS



Please support the advertisers that support our site.



This is Infoseek. Click here.

The bottom o'	the page toolbox.
CCI News & Magazine	CCI Computer Dictionary
Inside (urrents NEWSLETTER enter e-mail Subscribe	software onet THE Software Superstore Find
[Sample]	Advanced Search Browse Our Categories The Online Software Source since 1994

© 1994 - 1998 by Computer Currents Publishing Corp.

personal profiles. These profiles are an optional feature, where you provide demographic and personal-interest data above and beyond the basic information required to become a member. For instance, you can choose a name for Netcenter's chat service (called Instant Messenger), list your personal Web page's URL and your snail-mail address, and even file a 50-word (or less) public statement. You can also indicate how much of this information can be viewed by other Netcenter members.

The Professional Connections area is my favorite member area. You can get there by clicking Professional Connections from the home page or typing form.netscape.com/directory/community/html/pc_main.html. The topics cover four main themes: Tech News Today, Tools of the Trade, Small Business Source, and Work the Web. Each of these areas has a handful of forums where you can participate. I found an excellent discussion on Web portals that covered the ins and outs for users and publishers alike. The Rumor Mill, where members can gossip unashamedly, was also good reading. However, like the Web Mail feature, there's no way to read these forums off-line.

Free E-mail-With the Usual Catch

Netscape's WebMail is free with membership, but it comes with the same big catch of any free Internet e-mail service: You have to fill out some demographic information to use it, which helps advertisers target you. You can get away with the bare minimum-age, profession and industry-or, if you're a glutton for punishment, indicate your income, personal interests, and other juicy advertising fodder.

WebMail's features include an e-mail reader with address book and a 5MB limit on stored mail. The free features include the ability to collect mail from other POP3 accounts (up to five for free), a vacation option that lets you send an "I'm gone" message to anyone sending you an e-mail while you're away, an autoresponder that kicks on for certain subject lines or senders, junk-mail blocking, and a history of e-mail traffic. You can set up automatic signatures, define and arrange folders, and even spell-check your messages. All of this takes some time, of course, but you probably only have to do it once. Unfortunately, as with other Web-based e-mail services, you can't read your messages off-line.

Netcenter's WebMail also plans to offer Premium Services, including faxing, virus scanning, translation services, pager notification, and extra storage. However, the actual services and any extra costs involved weren't available at press time.

Smart Browsing Eases Searching

The Net Search section of Netcenter is much the same as it's been for the last year, except for the improvements in Netscape Navigator itself. When you input a key word into the Netsite box (what used to be called the URL box), the Smart Browsing feature finds corresponding listings from the Netcenter's database. Say you want to find out about backgammon. Just type backgammon in the URL box. Netscape Navigator will search Netcenter's catalogs (not the

3 of 5 8/18/98 1:37 PM

entire Web) for you.

Another feature, What's Related, offers Web pages related to your Netsite query. What's Related uses the Alexa Web navigation service, which archives and datamines Web sites to determine relationships and offer Web sites that are relevant to your search. What's Related came up with some bad links when I tested it. You can turn it off by unchecking the box under Edit*Preferences*Navigator*Smart Browsing.

Netcenter Channels

Netcenter's channels are not like the push channels we've come to know. They're just the categories of links available from its home page. The channels were created in partnership with Excite. The 17 channels that were available at press time offer plenty to explore, but here are the business areas I found most useful.

 Career Center: Click Careers under the Business channel to launch Netcenter's Career Center. Whether you're looking to boost your career or find a new job, you'll find many good resources here, including book listings (provided through a partnership with Amazon.com) and job-hunting resources provided by The Monster Board and the Online Career Center.

One of the most impressive features of Career Center is the Personal Search Agent, which searches Web-based job postings for jobs that match the criteria you set. You have to enter your Netcenter name and password to get access, and then create a profile. Then you select locations, categories, and key words for your search, put in your e-mail address for notification, and submit your data. The Personal Search Agent tells you immediately whether any currently listed jobs match and e-mails you when new matching jobs appear. You can also search for job postings by location and key word, post your résumé, look for employers or employees, and ask experts for career advice.

• Business Journal by NewsEdge: I found this area of the Business channel after I saw a flashing ad for it on the Career Center page. (OK, OK, advertising can be useful.) Here you can set up My News to receive customized business news, company information, stock quotes, and the like whenever you go to this page. I set up My News to provide information on the stock market, interest rates, and other economic indicators. The service is convenient, and the sources are sound. They include major news and business wire services and major newspapers and publications (some of which charge a fee for their articles).

Thumbs Up

Netcenter has enough useful features for me to say it's worth a visit. But you don't have to live there if you don't want to. If you install Netscape Communicator fresh, the Netcenter page is your default home page, just as Microsoft Internet Explorer takes you to Microsoft's Start page. Average users

SAN PHANLISCU BUSINESS HMES

San Francisco EA Circ - 16. Weekly

AUGUST 20, 1998

Baconis

AUGUST 14 20 1908 .

SAN FRANCISCO

keting and publications Most eccently, she was the marketing pro-

Reed Hulder. man has been named western regional director of the Trust for Public Most Land recently, Holderman was with the California State Constal Conservancy as manager of their natural



Reed Holderman

resources and nonprolif programs

Bay Area Community Services in Oakland has announced Dunlel Bloom and Michael Foster to its governing board. Bloom has 20 years experience as a computer system consultant who served as clust linancial officer for a number of Bay Aiea hotechnology companies Foster is a cost accounting manager for Levi Straugs & Ca.



Sausalite-based Vaccinite National Institutee. provider of envi renountal educa tion programs, bas John numed Caristroem as director of education and outleach

John Carlstroen

REAL ESTATE

Coldwell Banker's San Francisco office has announced the following new sales associates. Naver Style. Kurin Spaniding, Steve Pulaski, Byron Yoder, Henry Louis, Sally Ann McInerney and Delores Sandvick

Saputar Realty Inc. of San transisco has hired four new agents: Scott Taylor, Lori Ritter Honna Faulkner and Margaret Napier

Norman Avis has joined the Sau Rafael office of H&L Commercial Real Estate. Avis previously owned AVIS Realty



Douglas Kniveton dent of commercial property manage-

The Hayward office of Pacific Culf Properties Inc has announced Douglas Kniveton as director of real estate for the company s Northern California portfelie of industrial properties He was most recently vice presidevelopment for 3Com Corp. Also, the company's president, David Caw. has been elected to the LonMark Interoperability Associations board of directors

Nick Coffarra has been appointed vice president of worldwide ser-vices of Mento Park's Squibe Technologies Peter to that Caffaira was vice bitow to Justice or wide consulting at Prism Solutions



Burlingame. bnaed Cross. Worlds Software Inc. has aunounced Robert Hably as senior vice president of finance and chief financial officer. Print to that he served as executive vice president of finance and



Paul Gifford

has joined Andro-

media luc as tire

president of mar-

keting The San Francisco company

supplies high-end ueb site activity

administration/chief financial officer for Electronic Funds Services



analysis salutions Must recently Gifford served as Paul Gilloid vice president of

product development at Auspex

Systems San Francisco.





Place and out he said Semiconductor Equipment Tech-

haa -nology appointed Peter Sweetnam as director of product innnagement. Sweetnam was most recently president of Component Sales Corp.

Hobert Nobis has been promoted from regional vice president of North America/West sales to director of product marketing at Fremont-based SSE Telecom Inc. Lewis Cuntugham has been fured as regional vice president of Loun American sales Cunningham was formerly with ComStream,



DAILY NEWSPAPER WATERBURY REPUBLICAN-Circ - (M) 35.444 (S) 72.724 AMERICAN Waterbury, CT

AUGUST 24, 1998

BUSINESS & EMPLOYMENT

Monday, August 24, 1998 Page 9D

leb domains continue increasing rapid

ng, would eventually produce the h day that passes it becomes Pastingly tikely that a single mon-

to become masters of our own. In

So there are millions of Web sites Yahoo!, Excite, Infoseek, Lycos and for users to view, if only the users could find then in the first place. That is what is fueling the stock market and nundshare successes of what dong with America Online and (By the way, "portal" is one of the best buzz words to drop if you go to a party and an Internet discussion push," is pretty much passe. If you Portals are envisioned as doorways we used to call the search engines: the like. What we call them now Vetscape, among others, are portals. preaks out. Last year's buzzword can also work in "sticky, and "Y2K,"

BINARY

going to.

advertising to compaines that want to where millions of just surfers can go to create or find directones of conries of pages. If a portal can build a brand name among Internet users, if reach fots of Web users, or selling tent, directories of services, directocan generate significant piles of revenue in a couple of ways: selling real estate on the portal site itself to Web companies that can't match the portals' overall reach

fully is "sticky."

of than most other Web publishers

and lampshade registers and begins today, as every business, Web-happy individual, movie, breakfast cereal own infinite-monkeys experiment, go into the search form. You might have Portals have an important function using its own vanity domain. For your to Network Solutions. Web site at internicinet and type a random word

and, oh. how few are worth ways to something else, is there services that will keep users on their But if portals are just gatereally value at the portal itself? Even the portal folks ask themselves this question, which is why they start building or aggregating content and sites. Content that does this success-

Needless to say what Vetscape could result in "a new stickings," a new model for Web navigation. window on your screen.) newspapers believe they have more Online editions are intended to be long periods of time. That makes The Tribune's Internet and America very sticky, with stories, interactive features and classified advertising that keep users within their space for then more like "hubs," to try out another buzzword, with long spokes

on a given topic the information is The idea is that, instead of your going to a portal site every time you need newer or more refined information Browsing also is included in Netscape Navigator 45. (If you have installed the tool, every time you used which offers a tool that Forrester brought to you by the Alexa tool a version of which called Sniar a Web site, Alexa queries its own servers, then provides both informanon about the site and suggestions about related sites through a sneal, Research calls a "traveling portal Sticky content is one thing that

word convergence - now there's now offers, Microsoft and others with soon match; the Forrester folks say something anyone can support espehis sort of integration will result in a hybrid of portal and push." Buzz cially when their report also says

Sungman the Presunes director Jim Coaies usueily writes the .. A) Due Medins mail bu Binary Beat column He is ireare Meracine media is (1110g m

remember the hypothesis that an There are now 2.29 million 'top-level' Internet sites ks of Shakespeare just by bang, away at their keyboards? With MAINE 1110 a Web browser would to a real LRL on the first urv

tains - the ones ending in thers that illustrate the point. This are last mouth the folks over at work Solutions threw out some re company that for now, still has tonopoly on the registration of are called top-level. Internet m. "net." org and edu."

ar earlier to 229 million from s of June 30, the number of those ains had grown 120 percent from million. That's a lot of dots, and, an area have nonced, your friends ar what my absent colleague Jun es calls the "interactive multime. of long ago, we moved the newsweatshop are doing our part.

r's ntain Web site to its own am, chicago ribine com After com lurking in a subdomain of varent company's. it seemed time

relped swell the number of overall doniains by 'dropping the dot' Update your bookmarks and your a little technical legerdeniain, we fact, we did research that showed users expected our address to be dotless - and so, with more than nonte pages, please! o wait a while, but as Dr Seuss might nave said, oh, the places you'll go to the wonders of the Web - places

of content radiating out from them Hubs also aspire to build community

aniong users

One of the most interesting vanations on the portal theme comes from a company called Alexa (alexa cont)



YOUR SUBSCRIPTION



NEWSBYTES® Top Story

Study Estimates Web Grows By 1.5m Pages Daily

(08/31/98); 1:06 AM CST By Martyn Williams, Newsbytes SAN FRANCISCO, CALIFORNIA, U.S.A.,

Martyn Williams, Newsbytes. Just how fast is the Internet growing? Alexa Internet, which maintains a Web cache and database, says a survey of its database indicates an average days sees 1.5 million pages added to the World Wide Web.

The same survey also estimates the current Web is around 3 terabytes and doubling in size every eight months.

Alexa maintains a database of Web pages as part of the service it offers to users of its free Alexa service. Delivered through a small application, the service offers Web users additional information on each site delivered, such as site owner, popularity, server speed and site size.

In addition, it offers a solution to those annoying "404 - Not Found" messages by allowing users the ability to call up the most recent copy of a page from its database. It is this database that the service examined to come up with the figures outlined in its new report.

Other factoids found by the survey include the information that 90 percent of traffic is concentrated on 100,000 different host computers, while just 900 Web sites account for 50 percent of all Web traffic. It also estimated there are 20 million content areas, defined as top-level pages of sites, individual home pages, and significant subsections of corporate Web sites.

More information on Alexa and its browsing companion software can be found on the World Wide Web at http://www.newsbytes.com .

Reported By Newsbytes News Network: http://www.newsbytes.com

01:06 CST

(19980831/WIRES ONLINE/)

<u>Copyright</u> (c) Post-Newsweek Business Information, Inc. All rights reserved.

Internet | Telecom | Desktop Computing | Enterprise Networking | Asia
Web Reviews | Search | About NEWSBYTES® | Meet The Editors | Feedback



internet.com

internet news.com

Search



News Sections:

Business News

E-Commerce News Finance News International News Intranct News ISP News Product News Web Developer News Internet Stock Report Internet Advertising Report

internet.com

BrowserWatch E-Commerce Guide InternetNews.com Internet ProductWatch InternetShopper Internet World JavaBoutique JavaScriptSource PCWebopaedia.com SearchEngineWatch ServerWatch Stroud's CWSApps The List WDVL WebServer Compare WebDeveloper.com WebReference.com

Mecklermedia

Internet World Shows Advertising Info Corporate Info



internet advertising report

1.5 Million Web Pages Born Daily, According to Alexa Internet

[August 31, 1998] If ever the ad sales staff says there just aren't enough new sites to satisfy the clients, have them read this. said about 1.5 million new pages are being created every day.

Free Web navigation service Alexa said the data was determined from statistics collected through its two-year archiving efforts.

To date, the company said it archived 12 terabytes of data, equivalent to more than half of all the contents stored by the Library of Congress.

Some of Alexa's other findings:

- A current snapshot of the Web is 3 terabytes, or 3 million megabytes
- The Web doubles in size every eight months
- There are approximately 20 million Web content areas
- 90% of all Web traffic is spread over 100,000 different host machines.
- 50% of all traffic goes to the top 900 Web sites currently available.

Alexa said its robots crawl the Web to gather periodic text snapshots (a full sweep of currently available public Web content) and mines this data to provide site statistics and related links to users of the free Alexa service. Alexa also donates a copy of each snapshot to the non-profit Internet Archive, which is dedicated to preserving the World Wide Web for future generations to learn from.

"Alexa's archival efforts mean they've got more to say about the Web in general than any other Web data providers," said Chris Shipley, industry analyst and editor of DEMOLetter. "This means businesses and organizations using Alexa's statistics and trend data are tapping a vast data resource pulled from the most comprehensive archive of documents 'born digital'--that is, electronic at conception and through publication -than any currently available source."

Alexa, launched in October 1997, has clients that include Netscape Communications, the White House, Gartner Group and Encyclopaedia Britannica.



COUNTY EDITION Coste Mers. CA Circ - (M) 209.527 (S) 285,193

> **ORANGE COUNTY EDITION** SEPTEMBER 14, 1998

Bacon's

3985-A

Forget Forest Lawn—Live Forever on the Web

LYRFRSPACE

By ASHLEY DUNN

in the cosmic scheme of things, the human concept of forever is just a blink. Love is not forever. Beauty is not forever. Not even Microsoft is forever.

But in the last few decades, the human concept of forever has undergone a revolutionary transformation because of the rise of digital information. Digital data truly are forever. The information can be forgotten, destroyed or misplaced-and usualty is. But with the proper will, it can also be eternalan unchanging stream of ones and zeros that can stare at the breadth of human existence and not blink

The movement to archive digital information is well underway with such undertakings as Project Gutenberg (http://www.guten berg.net), which has converted nearly 1,000 books and historical documents into digital form. These so-called e-texts in the collection range from "A Child's Garden of Verses" to 'Zincali, Gypsies of Spain.'

Brewster Kahle, the inventor of the widearea information servers, or WAIS, system, has been working on a mammoth project called the Internet Archive (http://www archive net) that has been storing every bit of the Web It can find for future historians. He has already assembled about 4 terabytes of information-that's 4 trillion bytes-including a fascinating collection of 1996 election Web sites (http://www.archive.org (smithsonian html)

There are extensive archives on the Inter-

net for just about everything from digitized photographs to historical software to MIDI music flies.

The power of perfect digital reproduction has begun to shift the very concept of what is history, pressing it beyond the veneer of great documents, ruins and archeological finds into the realm of common life.

David Blatner, an author specializing in books on computer graphics, launched a project last year, AfterLife (http://www.after life.org), to archive the home pages of deceased Web surfers. The project got started after a friend named Irv Thomas (http:// weber.u.washington.edu/`irvthom/Realhome .html) expressed his concerns about the fate of his Web site after he died.

Thomas, a 71-year-old Seattle resident, had been a programmer for 30 years, but abandoned that work to write and philosophize about life. He published a book about his European travels on his site and archived an Intermittent journal of personal musings, called "Ripening Seasons." Like many others on the Web, he had come to see his site not as just a collection of random links and pet pictures, but an expression of his life and experiences. It was as much an artwork as Da Vinci's Mona Lisa or Thorcau's "Walden."

What Thomas had confronted was the other edge of the digital sword: While digital information can be preserved forever, it also can be frighteningly easy to destroy. A single misguided keystroke or a missed Internet service payment, and a few megabytes could be lost forever.

Blatner saw AfterLife as a relatively inexpensive way of extending archival care to the creations of the common man.

After more than a year of sporadic volunteer work. AfterLife is still more a concept than a reality. Archiving forever is much easier said than done, requiring a steady flow of funds, which Blatner does not have, and a commitment that will far exceed his life span.

Blatner added that he is also unsure of what should be archived and what should be left to fade into the virtual ether. Should pornography be archived? Should hyperlinks be maintained? Should there be alze restrictions? Should obituary-style memorials be allowed? Will HTML have any meaning in

Whatever the answers, the basic idea of using the virtual world to capture pieces of our real-world lives has an undeniable ap-

There are at least 25 sites now on the Internet that allow users to post virtual memorials on the Web. Most of the sites are connected to funeral homes or cemeteries.

It seems unlikely that many of these virtual memorials will get within even a few cons of forever. But Sharon Mnich, a Georgia Web designer who started the first Virtual Memorial (http://www.virtual-memorials.com/) in 1996 as a way to commemorate her grandparents, said the meaning of these sites is really not about eternity, but about the living and the here and now.

"The virtual memorials offer a way to celebrate the dash between two numbers on a tombstone," said Mnich, whose free site now lists more than 1,000 people. "That's all there was room for before. I can see these memorials becoming a standard part of life in the future. It can change a morbid-part of life into a celebration instead."

Please sand internet site suggestions to cutting.edge@latimes.com.

(KEANEK (EENNACK

PROFERS RESPOND 1.0 OTT OPEN LETTER TO STEASE you hit the nail

Your open letter to Sybase in the August 1998 issue of PBDJ hit the nail on the head when it comes to Sybase's commitment to PBDJ, and PowerBuilder for that matter. I have been a PowerBuilder developer since version 2.0 and was one of the first subscribers to PBDJ. Since 1993, PBDJ has been my primary source of reference and quality articles that have helped me advance my career. It's a travesty that Sybase has decided to drop its support for PBDJ. Before Sybase took over Powersoft, I had close relationships with many of the fine developers and staff in Concord, Massachusetts. I was truly impressed with the dedication, excitement and pride that the Powersoft folks displayed in those days. Since Sybase's reign, these qualities have diminished to the point where it seems that they couldn't care less if Power-Builder survives. Sybase has repeatedly displayed its lack of good judgment over the last two years by not supporting us, the developers and lifeline of PowerBuilder.

I've dedicated the last five years to promoting and supporting Powersoft tools. I am a CPD professional. CPI and a certified Sybase DBA. I've spent hundreds of hours in the Powersoft and CompuServe forums helping support the tool. I made my commitment to Powersoft and Sybase long ago. But seeing what they have done to the Powersoft tools division, as well as their total incompetence when it comes to managing the once vital relationship with PBDJ, just takes the wind out of me. It seems they have turned their backs on the people who make a difference in whether their product lives or dies. Kudos to Sybase, yet another stupendous marketing decision made. When will Sybase learn? Will it take the death of PowerBuilder to finally wake them up?

I'd like to thank the wonderful people at Powersoft; we know you're not at fault and you have been absolutely fantastic to work with over the years. Thanks to PBDJ for stepping forward and taking a stance. It's about time the readers of PBDJ and the PowerBuilder community did!

Anthony M. Perugini

President, Forte Information Systems, Inc. www.ConsultForte.com



An enthusiastic PBDI reader shows his support at the Powersoft Conference with his "World Tour With PBDI" bag. He still proudly carries this momento from the PBDJ World Tour training seminar series, three years ago!

base must do a complete 80

I'd like to preface this letter by saying that some of the first tools I seriously developed with came from Sybase/Powersoft, I have over four years of Sybase DBA experience involving administration, development, data warehousing, replication and middleware. I have over three years of PowerBuilder experience ranging from class library development to 100+ pbl distributed PFC applications. I have designed and deployed over 300 databases, 15 data marts and three data warehouses using S-Designer/PowerDesigner. During the course of all this development, I have used every tool and component in Sybase/Powersoft's portfolio. I have also accounted for many millions of dollars in sales of Sybase/Powersoft products. During the time I spent developing, specifying and deploying Sybase/Powersoft solutions (note the past tense), I have endured quite a few things. Sybase does not support its developers. They don't market their products effectively....[I]nformation concerning future products or directions has been nonexistent. They don't support their certification programs or those who earn certification credentials. Yet they expect us to just come to them and purchase tools to solve all our problems. Their technology is good in most cases. Integration is horrible and support is nonexistent. One case in point: Our company purchased a copy of System 10 for NT to do some development for one of our clients. We did not purchase any technical support contract. Two months into the development we encountered a serious memory leak that had a serious impact on our development efforts. After spending nearly 40 hours on the problem and after dozens of phone calls, we found out this was a known bug and that a patch was available. This bug was known about prior to our even purchasing the copy for development. The problem was that the patch was available only to those customers who had purchased a technical support contract. Even though they

had sold us a product known to be defective, they refused to fix it unless we paid them. This was the last straw for me. At the time this happened I was just beginning to get a taste of Microsoft's support and products. The technical support fiasco we went through was the point at which I made the decision that Sybase/Powersoft tools would no longer be on my list of supported or recommended products. Let me give you a breakdown of what Microsoft has provided for me, free of charge, that does not exist with Sybase/Power-

- 1. It actively promotes its certification programs and provides quite a few benefits to those who achieve various certifications.
- 2. MS provides free magazine subscriptions, free Tech-Net and MSDN subscriptions, and a certain number of free premium tech support calls for various levels of certification.
- 3. Education is actively promoted and available at hundreds of sites around the world.
- 4. All of their product documentation is available free on the Web and also on CD via a subscription service.
- 5. Their Web site contains thousands of pages of product information, techniques, white papers and training to support all of their products.
- 6. Various mailing lists are available to keep people up to date on all development efforts, schedules and directions.
- 7. The beta program is essentially open to everyone first come, first serve.





Who Is Responsible for All This?

Bill Bartow and Steve Clark of Sybase can take most of the credit for PowerBuilder's recent successes and failures. Bartow and Clark were also part of the team that masterminded the "PowerStudio" marketing idea, which minimized PowerBuilder's importance among other Sybase tools. This marketing campaign was launched at the 1997 Powersoft Conference in Nashville, Tennessee, a year ago and the results were observed at this year's Conference in L.A. Bartow is also one of the people who refused to support PBDI.

reader reedback

- They provide heavy advertising in hundreds of publications.
- They subsidize dozens of publications devoted to their tools and technologies.
- 10. They even produce a few publications.
- Solution providers receive copies of all products for use in development and education. (The only restriction is that they can't be used to generate income.)
- 12. Solution providers are actively promoted to businesses.
- 13. Every patch, bug fix and various add ons and upgrades are available free of charge to anyone.
- Technical support can be accessed free of charge for a wide variety of products.
- Hundreds of education seminars and functions are run by Microsoft each year.
- 16. They provide a wide array of products that have virtually seamless integration. (It is very easy for me to construct solutions utilizing a dozen different tools without any custom tools or the need to write customized code.)

I could probably continue the list, but I believe Sybase/Powersoft is keenly aware of all of these deficiencies. Microsoft does not have the best-of-breed tools in most areas, and I freely admit that. What they provide is unparalleled support. Microsoft has realized one thing that continues to elude Sybase/Powersoft. We, the developers and implementors of their products, hold the company's future in our hands. Microsoft has gotten where it is

Announces
Support for
"PowerBuilder
Lobby"

Founder and president of SYS-CON Publications, Inc., publisher of PBDI and JDI, Fuat A. Kircaali recently met with the presidents of "PowerBuilder Lobby" and "Java Lobby" and announced full support of their activities (JDI, vol. 3, issue 8). PowerBuilder Lobby is an independent organization that aims to protect the interests of PowerBuilder developers and companies with significant investments in PowerBuilder. Since last January, PowerBuilder Lobby has tried numerous times to reach Bill Bartow and Steve Clark of Sybase, Inc. Neither responded to countless attempts to discuss PowerBuilder Lobby's concerns over PowerBuilder's future. PBDI interprets this behavior as indifference on the part of Sybase.

because they have encouraged and supported their developers on a scale that is unmatched in any industry. I am much more likely to implement a solution that I know my clients can get tremendous support for. I am also much more likely to work with a company that will provide a large amount of support for my efforts.

If Microsoft took the same approach that Sybase/Powersoft does by not supporting the people who buy their tools, they would not be in the position they are, regardless



SYS-CON vice president of marketing Carmen Gonzalez and radio host Robert Diamond introducing SYS-CON Radio in Los Angeles.

of technology. I'm sure Powersoft remembers a company called Gupta. They have fallen into the same mindset as Gupta - build it and they will come. They will not come. Companies are not looking for a whole pile of best-ofbreed tools. They are looking for a set of tools that will continue to evolve, are widely supported and will integrate with each other. Has anyone at Sybase/Powersoft REALLY tried to put together a solution that has PowerBuilder talking to Jaguar, which puts data into Adaptive Server? If they have. I'm certain they would never have released the set of products until they had done some serious reworking. I use Microsoft as an example here. The same can be said for Sybase/Powersoft's other major competitors, such as Sun with Java and the promotion and support they offer to the developer community, or Lotus/IBM with Notes/Domino and the wealth of resources available from them.

From working in and watching this industry for the last 20+ years, Sybase/Powersoft is on the fast track to nonexistence. Meanwhile, Microsoft is sitting at the next crossroads where some of their tools begin to push into the best-of-breed category. While it doesn't have some of the features, I have specified Visual Basic or Delphi over PowerBuilder mainly on price, support and usability. For transaction servers I wouldn't consider specifying anything other than MTS for its seamless integration with the 95% of applications in existence. On the database front, anyone at Sybase that has had the opportunity to work with the beta of MS SQL Server 7.0 should be very scared. I find it amusing that quite a few features I've seen in Adaptive Server are ones that existed in MS SQL Server 6.5. (Can you say xp_cmdshell?)

Sybase/Powersoft must undergo the most dramatic change possible within the next six months or they will fade rapidly from the landscape. What are my predictions? MS SQL Server 7.0 will be released in Q1 1999. Visual Studio 6 will be teleased in Q4 1998. Many advanced features will be available for NT in SP4 by Q4 1998. Upgrades to most other

MS products will be released by Q1 1999. Sun will succeed in pushing Java into widespread server-side development by O1 1999, Lotus/Domino will release major upgrades to their flagship products that offer greatly enhanced functionality and interoperability with a wide range of tools and technologies. Oracle will release a minor upgrade to OracleB that solidifies and enhances the features already available. By June 1999 sales of Adaptive Server will essentially cease. By December 1999 Sybase will be in Chapter 11 bankruptcy from which they will not emerge. We, the developer community, have been telling Sybase/Powersoft for years that they have to fix their company, eliminate all of the marketing blunders and support the people that use and sell their products. They have failed to do the one thing all companies need to do - listen to their customers. Due to this failure, they find themselves at a critical juncture. Many of their most talented developers have left or been cut from the company. All of their competitors have passed them by and are completing product strategies that will cut Sybase/Powersoft from the market. Sybase/Powersoft has one last chance in this new world of IT. They must do a complete 180 of their operations over the next six months or risk the very real possibility of going out of business.

Mike Hotek

Rolling Meadows, IL (www.swynk.com/fiends/hotek) SYSOP PBDJ Forum (www.sys-con.com/pbdj) Member Worldwide SQL Server User's Group (www.swynk.com/sswug)

Modern Business Technology, LLC (www.mbtinc.com)

a disappointing

I hadn't noticed just how little support you'd been receiving from Sybase until I read your letter. That brought to mind the fact that I came to know about PBDJ only because you've been at the Conference each time I've attended. I received no subscription form in PB 5.0 or 6.0. It's a good thing you're present at the Conferences.

I find it disappointing that Sybase is not supporting your publication. I have received a lot of helpful information from PBDJ that is nowhere to be found in the PB Documentation. Product Reviews, Slick Tricks, Migration Assistance, etc., have all made developing in PB more enjoyable. I would think Sybase would have liaisons working directly with you so that the channel between Sybase and their customers would remain (or become) smooth-flowing. They should encourage people to read PBDJ and advertise their products and services in it.

Regardless, as long you continue publishing useful information, I will continue reading *PBDI*. It's just a shame that so many other potential readers are missed because of the lack of support from Sybase.

Tom Peters

Pepsi-Cola IT (tom.peters@pepsi.com)

อนาง ไปแน้ย

* BY BRYANT DURREL



Guests on a New Frontier

seriand Software's Frontier is one of the more unusual programming environments our there. It originated on the Macintosh, as a sort of competitor to AppleScript. Since then, this unique combination of database and scripting language has been adapted into a Web-site building tool. a CGI engine, and more. In 1998, Userland ported Frontier 5.0 to Windows 95; in a related development, after two years of success in the free software market Frontier is going commercial with the release of 5.1 (Visit www.scripting.com/frontier5) for product information.)

One of the multitude of features in Frontier is an easy interface for writing CGI programs. To illustrate its use, I've created a simple guest book. The complete listing is reproduced in Listing One. This guest book doesn't have any spectacular hells or whistles; the script, however, demonstrates the features that differentiate Frontier from any other scripting language available.

Before we can dig into the script, however, we'll need to understand some of the internals of Frontier. Everything one does with Frontier begins with the Frontier database. The basic concept behind the database is simple; at the top level, it's just a table. Any table in the database can contain any of the data types Frontier understands, including the table data type itself. Other data types include the usual programming language data types, like strings, doubles, and Booleans; there are also data types for word-processing text, scripts, and pictures.

To get an idea of how Frontier uses this information, we can look at the system table, which is one of the tables in the root of the database. Within the system table, we find the verbs table. Inside the verbs table, we discover the strings table, and the strings table contains one script item for each string function in the scripting language.

And yes, if we modify any of those script items, we'll be modifying the scripting language itself. Frontier users get a dizzying degree of hands-on control over the language. But it's not just the language you find in this database; you can also find the tables that define Frontiers menu items, a table for the pages in Web sites you build with Frontier, and much more.

Figure 1 shows a bit of the Frontiet database, with some tables expanded to show their subtables

Creating a New CGI Script

To add a CGI script to the Frontier object database, we need to open the table user, webserver, egis. The "" is a Frontier convention; that string can be translated as "the item named egis in the item named webserver in the item named user." Any script item placed inside that table is accessible as a CGI. (Frontier is capable of running as a stand-alone Web server as well as working with Macintosh and Windows Web servers.

unfortunately, discussing how to run Frontier CGIs from a Web server is beyond the scope of this article.)

Alter we've created a new script item and begun to edit it, we return (mostly) to a more standard environment. Once we get used to the fact that the script editor uses an outliner paradigm (having to do with the background of its primary author, Dave Winer), it starts looking a lor like normal code. Note that the btackets that delinease program structure in Listing One were automatically added when Lou the code out of Frontier, for clarity, under normal operation, program structure is defined by indentation, much as it would he in Python. The same thing goes for semicolonis. Also, comment lines start with <. It looks like two < symbols, but it's actually a single character.

Initialization

Line 1 defines a function; for CGIs, the name of the script item must also be the name of the function it contains. The parentheses define the argument list. Frontier is not strongly typed, at this

examples	on disk	tsbie
scratchpad	on disk	eldel
etitee	1 nem	1able
system	12 nems	table
1961	12 hems	18610
aena dew	9 toms	1300
**dela	en disk	13010
Affiners	ion diak	12019
#RpSite	er disk	rable
Mgiassary	on righ	10010
mprana arangm	on disk	120/4
- Remplate	on disk	autime
• •Rools	an disk	table
- Grasipock	,9 nems	table
▶ omry1	7 name	18019
	A SHARE THE PARTY OF THE PARTY	19.5
, amail	huan@flemep	stnng (17)
· entrydate	Sunday, June .	stnng [21]
· entrytime	11 48 CQ PM	stong [11]
· message	JRU s suodow	stnng [14]
. uews	Gry≨nt Dumeit	einng (14)
* guery	Add Emg	string (9)
> un		string (0)
b amry3	on eisk	teble
▶ omryd	an sisk	table
* entry5	on disk	table (
■ entry6	on disk	table
⇒ entry7	on drak	lable
▶ entryθ	an disk	19319
* lastid	19	number
A Desire Control And Control		
	e Frontier database, wi	

```
LISTING ONE
                                   un guestBook (ad:P=:=28) (
                                 CrableBov - takes a list of data cells builds a table
an tablehow (celliet = ()) {
    ads ("ctr");
    for vali in relitive f
    add (res")
  13
                                                                                 add ("e/e:> )
                                                           concern the wabsites guestbook inhib if necessary if not defined(wabsites guestbook) (
new (tableType, "websites.guestbook")
    21
22
23
24
25
26
27
28
29
31
32
33
34
35
36
37
37
38
                                                              of not defines(websites guertbook.lastid) (
                                                              with accharance (
                                                                              (* wild header
add ("chtellychedpotitle>Gueetbook</fresh.p</pre>
// rebody?"
// dod ("cht)Subsetbook
// rebody?"
// dod ("cht)Subsetbook
// rebody?
// dod ("cht)Subsetbook
// rebody?
// 
                                                                                 alse [
                                                                                                                         local (nevEntry)

websites guestbook lestades
haventry = "websites suestb
                                                                                                                         veestes twerbook lastif*
newfrty: "vebsites questbook antry" * websites guestbook lastid:
new (tablaType, newEntry);
tabla components (desgTable, newEntry) *,
newEntry' ontrydata string,dataString ()
newEntry' ontrydata string,dataString ()
                                                                                   « table and form - header, then build the form, then the feature
                                                                                     add ("(form mathod=post)");
                                                                                 tableNov {{"ctd>(atrong)Nee (/strung)(/td>", "ctd>(fatrong)), ctd>(fatrong)(/td>", "ctd>(fatrong)(fatrong), ctd)(fatrong)(fatrong), ctd)(fatrong), ctd)(fatrong)(fatrong)(fatrong), ctd)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong)(fatrong
    59
                                                                                 tableNow (("tto)*ctrong/VRL.</strong>*/
tableNow (("tto valagn=top)*(strong>Nescase </crong>*/
tableNow (("tto valagn=top)*(strong>Nescase </crong>*/
       62
                                                                                 tablaRow (("fid whigh=fop)(etrong/Hassas f/crrong//fd)"
    "fd rownpan=2/chartares name=mecsage colo=58 rown=18)(/tdxtarea>(/td>")).
tablaRow (("fid walign=bottom>(angut type=cubmit value="Add Entry" name=quary>(/td)")).
                                                                                     edd ("(/form)"):
edd ("(/fable>"):
                                                                                     odisplay previous guestbook entries
for 1 = 1 to websites guestbook lastis (
                                                                                   Note: To websites guestoon minimal for the light of the l
       72
73
74
75
76
                                                                                                    if otring.length(entry^.email) != @ (
   add (" ('a href*'meilto'" * entry* email * "'>" * entry* email * "'(/a))")
       78.
                                                                                                        add (", " + antry" entrytims + ", " + entry" entrydete) (C = td, (r, -r))

<

«add (entry* antrydata)
aed ("")
add ("")
                                                                                     "finish off the page
       95
95
96
97
98
                                                           (Cand return the text for displey return(htmltaxt)
```

point. The single seminaria (A.C. sdcParams could be an anta type. As it happens, when the script is called, adcParams is a pointer to a tole containing the information you'd get as environment variables in a UNIX CGI script.

Lines 3 through 7 are stock glue for the Frontier CG1 routines. At the end of the script, we'll use html text as the return value: Frontier takes care of everything from there We begin by defining htmltext as a local variable containing a stock HTTP header, as defined by another script in the webServer tablewebServer.httpHeader. Note that we don't have to specify the full path to that script (which would be user.webServer.httpHeader). There's a preferences table in the Frontier database that includes a listing of tables that are always checked for functions. We also define a function called add, which simply concatenates a string onto html text.

Lines 9 through 17 define another function that we'll use for creating table rows. It introduces a new data type the list. A list is just a collection of variables all of the same data type. It also demonstrates default values. When we say cellList = (), we provide cellList with the default value of (), the empty list. The default value is overridden if the function is called with a parameter.

Lines 19 through 25 set up storage for the guest-book entries. There's no need to create a separate file to contain these we can just stick them somewhere in Frontier's built-in full-featured database. In this case, we've chosen to put them in websites, guest-book. Line 20 checks whether or not the table already exists, and if it doesn't, creates a new entry of the data type table Type. Line 24 sets up a counter variable with which we can keep track of the number of entries that exist.

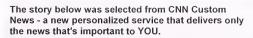
At line 27, we finally reach the meat of the script. First of all, we ll make life sympler on ourselves by using the vith operator to tell Frontier that we're going to use the table referenced by the variable adrParams as our default table when looking up variables. In other words, every time Frontier encounters a variable name it will look for a local variable, then in the referenced table What do we mean by "the referenced table" Well, Frontier doesn't pass the table isself to the CGI script, just a reference to the table. The "operator dereferences the variable.











Sign up now to receive your personal news stories, weather, sports scores, and stock quotes from over 100 different sources - all for FREE. If you're already a user, please login.



Study Estimates Web Grows by 1.5m Pages Daily



Help Feedback Switch User



Home Community
World US
Local Weather
Sports Business
Travel Sci-Tech
Style Showbiz
Earth Health

CNNfn

allpolitics &

SEARCH musto

NewsBytes 31-AUG-98 By Martyn Williams

SAN FRANCISCO, CALIFORNIA, U.S.A., 1998 AUG 31 (Newsbytes) -- Just how fast is the Internet growing? Alexa Internet, which maintains a Web cache and database, says a survey of its database indicates an average day sees 1.5 million pages added to the World Wide Web.

The same survey also estimates the current Web is around 3 terabytes and doubling in size every eight months.

Alexa maintains a database of Web pages as part of the service it offers to users of its free Alexa service. Delivered through a small application, the service offers Web users additional information on each site delivered, such as site owner, popularity, server speed and site size.

In addition, it offers a solution to those annoying "404 - Not Found" messages by allowing users the ability to call up the most recent copy of a page from its database. It is this database that the service examined to come up with the figures outlined in its new report.

Other factoids found by the survey include the information that 90 percent of traffic is concentrated on 100,000 different host computers, while just 900 Web sites account for 50 percent of all Web traffic. It also estimated there are 20 million content areas, defined as top-level pages of sites, individual home pages, and significant subsections of corporate Web sites.

More information on Alexa and its browsing companion software can be found on the World Wide Web at http://alexa.com/.

Reported By Newsbytes News Network: http://www.newsbytes.com







© 1998 Cable News Network, Inc. A Time Warner Company
All Rights Reserved. <u>Terms</u> under which this information is provided to you.
Read our <u>privacy guidelines</u>.

Custom News is built on ORACLE: technology.

MISCELLANY

THE SOUL ENCODED

Software that thinks it knows you By Steven Johnson

omewhere deep within an office in The Presidio of San Francisco, shuttered against the contaminants of dust and static, a robotic device connected to a supercomputer darts in and out

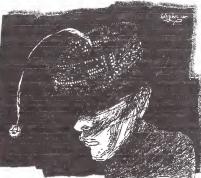
of a miniature cityscape of digital tape drives. The assembled machines resemble an eight-track cassette jukebox, but the underlying technology is a touch more advanced: the supercomputer itself is approximately six thousand times faster than today's standard-issue PC, and the tape drives can hold over twenty terabytes of information, the equivalent of seventeen million books.

You'd think a processing superpower like this would be off-limits to everyone but grad students, millionerds, and astrophysicists, but the surprising truth is that you can tap the cognitive re-

sources of this machine via an ordinary Web connection, as thousands of casual surfers do every day. With all that horse-power at their disposal, you might ask, what order of wisdom do these surfers seek? The mysteries of quantum physics?

Steven Johnson is the editor in chief of the online magazine Feed and the author of Interface Culture. How New Technology Transforms the Way We Create and Communicate

A grand master's sactificial pawn? As it turns out, the robotic claw and the supercomputer are collaborating on an answer to a more basic question; how will we entertain ourselves next?



This contraption is the property of Alexa Interner, which was founded in 1996 by two thirty-something Net proneers, Brewster Kahle and Bruce Gilliar. The company's primary product is a software tool called Alexa While the software has received some attention for its ability to retrieve deleted Web pages, the most provocative thing about Alexa is its uncanny ability to recommend new Web sites based on your molyidual tastes and in-

clinations, as though the machine itself had somehow come to know you personally. "Uncanny," that is to say, in the original E. T. A. Hoffmann sense of unhamlich, the mechanical

doll that feigns the delicate sensibilities of a princess and fools everyone along the way. Alexa can direct weather fapaties to obscure university. subsidized satellite images, or Devo fans to exhaustive discographies of the band's collected works, all without consulting the editorial judement of a flesh-and-blood linkmaster. In the older, analog world of mechanical obiects, we once called this phenomenon animism, the machine passing for a living soul But in the world of software, it is known as "collaborative filtering."

Collaborative-filtering programs such as Alexa descend from the family of software known as "intelligent agents." Software agents have been an idee fixe of Stircon Valley visionaries for nearly a decade, ever since Apple first floated the idea of a Jeeves-like application that would dutifully schedule appointments, track down library records, and run interference with your digital creditors. But most attempts to bring the idea to fruition have been spectacular failures, sunk by cartoon-

 Γ duertise in the Spring 1999 CATALOG SHOWCASE appearing in the March issue of Harper's Magazine. Reach 700,000 educated, upscale consumers with your ad. For information or to reserve space, write to Danielle DiMatteo at HARPER'S MAGAZINE 666 Broadway New York, NY 10012 or call (212) 614-6508 Catalog Showcase Order Form To order circle the numbers of the catalogs you wish to receive on this graet form Sena check o money order made payable to HARPER'S MAGAZINE. Full Catalog Showcase P O Box 5232 Pitisneld, MA 01203-0052 Pieuse allou six in eight weeksfor "zin ers SREE Davidship Brooks Augio Fonim Loome inte-FR == 5. Sunnylana Farms TREE FREE Flammacher Schlemmer Pieuse ade. \$1.50 pustage/proc.ssim, 1., to would

like anthropomorphs darting across the computer screen, pestering their masters with "helpful" tips

Collaborative-filtering agents interact with humans in a more mildmannered, largely numerical tashion. The software does three fundamental things: ir collects data about your cultural tastes, compares that data with other profiles in its database, and then makes recommendations based on the resulting analysis. The agents are not limited to recommending Web sites: Barnes & Noble and Amazon.com use the technology to help online shoppers choose books, for example, and visitors to CDnow and MovieCritic can ask their computers to personalize suggestions for music and films. But can compurers really replace humans as entertainment guides and cultural critics? What will happen to the rexture and range of our culture if they

ne of the first successful demonstrations of collaborative-filtering software came from Firefly Network. Inc. founded in 1995 and acquired last April by Microsoft for an estimated 530 million. The "demo app" for Firefly was a music-recommending program assembled under the supervision of MIT Media Lab professor Patrie Maes. The program asked you to rate a handful of albums and then dutifully furnished a new sor of tirles that ir "intuited" you might like. If you were familiar with some of the titles, you could rate those and ask for more recommendations. With each round of feedback, the agent grew subtler and more sophisticated, and its guesses grew nure educated

The logic behind collaborative filtering is simpler than you might expect. The agent assumes that people who have some interests in common will also share other interests, and that Web sites or rock albums—or books of movies or wines or operas -- that have fans in common will share some youeral characteristics. The waget at the heart of the Firefly model goes something like this: if two thirds of the people who like Elvis Costello's King of America album also like Nick Lowe records, then a King of America fan is more likely than not to be a Lowe fan as well. Alexa tollows a comparable algorithm, tracking the surfing habits of thousands of individual users and booking for patterns in their trails. When you visit a given Web sire, the software does a rapid-fire analysis of its database and returns with a short inventory of other sites to visit. I've noticed that many visitors to this site also visit these other sites, says the software Perhaps you might like them

Collaborative-filtering applications require a massive amount of data for their recommendations to have any accuracy If each title in the database has been rated by only a handful of people, there's simply not enough resolution in the numbers for anything useful to be extracted from them. Barnes & Noble's Firefly application performs tolerably well if you feed it mostly best-sellers, given that these books have already accumulated a significant body of rarings. (Of course, there something about consulting a high-tech oracle and having it tell you that you've just got to read Cold Mountain) But consider the 1esult or this query, an attempt to find books for someone who likes Madame

Summer Moonshine
P. G. Wodehouse
The Night Crew
John Sandford
Bastard Out of Carolina
Dorothy Alhson
The Murder of Roger Ackroyd
Agatha Christie
The Code of the Wonsters
P. G. Wodehouse
Murther & Walking Spirits
Robertson Davies

Watching the computer generate these lists is entertraining enough, and you can't help looking for some hidden justification lurking in the more unlikely picks. It's a stretch, bur you can almost see Bastard Out of Carolina as a more brutal version of Emma Bovars'a domestic angst, and Roger Ackroyd—at first consideration the real wild card on the list—grows more plausible when you remember that this was Christie's most postmodern mysters, in which the narraror himself turns out to be the killer (perhaps a variation on Flaubert's "Emma

PREE GIFTY

When you arder a Special Offer

The Winged Tiger & The Lace Princess
book and Tiger doll for only \$29.95

acst Buy (a \$38.00 value) Item = 703

The Winged Tiger's Warld Peace Party
Puzzle Book and Tiger doll for only \$19.95
(a \$30.00 value), Hem #904 (for a limited time only)

ORDER NOW BY CREDIT CARD! Call TOLL-FREE 24 hours, 7 days a week-1-888-21-TIGER (1-888-218-4437)

The Winged Tiger & The Lace Princess (#701)

This timeless romantic fantasy features Phil Yeh's enchanting watercolors and Lieve Jerger's exclusive copper lace art. A



global fairy tale, filled with beauty and inspiration. Dreamers of all ages will treasure this gift. Limited First Edition of 3,000 copies hand-signed and numbered by both artists. Hard cover, 32 full color pages.

The Winged Tiger's World Peace Party Puzzle

Book (#901)
Like the popular "I Spy"
and "Where's Walaa"
books, you the magical
Winged Tiger in search
of five hidden objects
in each of 28 global
cities Fun for all ages!
32 page, color, hard
cover Only \$11.95



The Winged Tiger Plush Doll /#903/ Cute plush 10"doll Collector's item.

Yours for only \$11 95 (a \$15 00 value)



To order by mail. Send check or money order to: Cartroonist Across America P.O Box 300, Cailua, Ht 94744. Add S3 95 for shipping and handling for U.S orders or \$10 00 for foreign orders. CA reasients add 7.7% sales tax We stand behind each product with a 30-day, 100% money back quarantee

Since 1986. Phil Yeh, the audisther of over 50 books, has pointed murcls internationally to promote literacy and the arts: He also speaks in schools and at conferences about the importance of art in education. For speaking engagements and murcl events, please call (808) 261-0589 or fax (808) 531-0957.

Win a Winged Tiger Watch!

Bovan, clest morth. But the links invariably grow strained, artificial. The easiest way to appreciate the limits of the technology is to picture saying to a friend. "So you loved Madame Bovary? Then you must read P. G. Wodehouse."

It's fun-and usually a little reassuring-to lampoon software's more feeble efforts at imitating human discrimination, and there's no question that the hype balloons of digital visionaries could use a little deflating. Yer collaborative filtering-at least in its initial manifestations—has much to recommend it. For one thing, it makes no attempt to simulate human intelligence or consciousness directly. In orher words, you don't teach the computer to read or listen to music; it simply looks for patterns in numberssometimes called "pattern matching." In fact, the "intelligence" of the agent is really the aggregated wisdom of the thousands-or millions-of people who use the system. The computer churns through the millions of ratings in its database, looks for patterns of likes and dislikes that repeat themselves, and passes its recommendation on to the user. In this sense, the computer is more of a traffic director than a thinker: moving brief morsels of information from user to user, not unlike the e-mail routers that send messages across the Internet. For this reason, collaborative filtering should be understood as a direct descendant not only of the "intelligent agent" breed of software but also of modern computing's founding fathers.

The dream of a technology that would gather, share, and multiply collective wisdom fueled many of the Net's early pioneers: Vannevar Bush. Ted Nelson, all those research scientists who built the original Internet backbone and then codified the standards of the World Wide Web. At its best, collaborative filtering can be seen as an extension of that original vision. "It would benefit society if we could more easily reuse the knowledge and experience other people have gained about problems," says Patrie Maes. "This is one of the ways that we have built software agents-they don't necessarily have any information themselves about what you do when you want to buy a car, but what they do is monitor, and collect a lot of information about people solving problems, and then give you tome of that condensed information—and especially patterns that it finds among many people solving that problem."

d-school humanists rend to find something alarming in the idea of turning to computers for expert wisdom and cultural sensibility. In most cases, the critics' objections sound like a strangely inverted version of the old morality tales that once warned us against animating machines: Goethe's (and Disnev's) "Sorcerer's Apprentice," Hoffmann's "Sandman," Mary Shelley's Frankenstein. In the contemporary rendition, it's not that the slave technology grows stronger than us and learns to disobey our commands: it's that we deteriorate to the level of the machines. Smart technology makes us dumber. Virtual-reality inventor Jaron Lanier has argued this point relentlessly over the past few years, including in a much-discussed debate with Maes on Wired's Web site in late 1995. "I still think a culture influenced by agents," he told me in an e-mail correspondence, "would be impoverished by a subliminal process of human accommodation to shallow computer representations."

The critique certainly has its ments. and even among the Net community-if it's still possible to speak of a single Net community-intelligent software remains much vilified in some quarters. Decades ago, in a curiously brilliant book titled God and Golem. Inc., the computer scientist Norbert Wiener argued that "in poems, in novels, in paintings, the brain seems to find itself able to work very well with material that any computer would have to reject as formless." For many people, the distinction persists to this day; we look to our computers for number crunching; when we want cultural advice, we're aiready blessed with plenry of humans to consult. Other critics fear a narrowing of our aesthetic bandwidth, with agents numbly recommending what everyone else is listening to, all the while dressing their recommendations in the sheep's clothing of custom-ht culture.

That said, it does seem a little silly

to resist the urge to experiment with the current cultural system, in which musical taste is usually determined by the marketing departments at Sony and Dream Works, and expert wisdom comes in the form of Ann Landers columns and Psychic Friends. If the computer is, in the end, merely making connections between different culrural sensibilities, sensibilities that were originally developed by humans and not by machines, then surely the collaborative filtering model is preferable to the way most Americans consume entertainment, which is by obeying the dictates of advertising. Software such as Alexa isn't trying to replicate the all-knowing authoritarianism of Big Brother or HAL, after all: it's trving to replicate the folksy, communal practice of friends telling friends about an online magazine they might like or a good deal on a Ford Taurus. In an industry obsessed with slick futurism. there's an engagingly small-town Americana feel to all of this-even if the "friends" at issue are total strangers. communicating to each other over the distributed network of the Web. It's not an accident that Fitefly jargon

refers to users with similar tastes as "neighbors.

mall-town conservatism may sound like an unlikely sensibility for the latest in high-tech code, but the analogy is not as forced as it may appear. Just as the Gingrich Congress. and its acolytes in the business press, have argued for a devolution of centralized government, extolling the virtues of the market's creative anarchy, the software avant-garde has pressed for decentralized software applications, programs that get their smarts from the actions of thousands of users rather than just the central planning of a single programmer. What unites these two worldviews is the common theme of decentralization: the belief that systems that selforganize from below-creating themselves out of countless lower-level actions rather than top-down, hierarchical command structures-are intrinsically sturdier, more self-sustaining, and more generative than their top-heavy counterparts. Mass culture has traditionally forced informationand artistic taste—to flow down com-

T. Rowe Price Blue Chip Growth

Fund invests in today's leading growth companies as well as those with the ability to become tomormw's industry leaders. These blue chip companies offer the potential for sustained growth while providing reduced volatility compared with small, and mid-cap companies

The fund's strategy has proven effective. As the chart indicates, the rung has outperformed its Lipper

Category Average since inception (6/30/93). Of course, past performance cannot guarantee future results. No sales charges.

Performance Versus Competitors Average Annual Total Returns as of 3/31/98* Blue Chip Growth Fund

Lipper Growth Funds Average



Call 24 hours for your free investment kit including a prospectus 1-800-541-5854



Pigures include changes in principal value, reinvested dividends and capital eain distributions. Investment return and principal value will value and shares may be worth more or less in regemption than at original purchase. (Source: Lipper analytical Services Inc.

Read the prospectus carefully nefore investing. T. Rowe Price Investment Services. Inc., Distributor

"WOW, I can't believe you have

1-800-EVERY-CD is a wholesale music club that offers virtually every CD in print. All CD's are sold at wholesale, which is about \$5.00 per CD less than list price and is guaranteed to be the lowest cost you can find. Search our online catalog at www.everycd.com or give us a call. Whatever CD's you want, we'll have them for less than anyone else. We !! also have the items you've been wanting to buy but couldn't find. Call for your FREE trial and request our new 950 page catalog today. Good music selection is hard to find. We re not



music for the serious collector

Outside the US call (203) 972-13-

mand lines rather than ripple upward (This is one reason who Madison Avenue catchphrases like NBC - "Must See TV" and ATSIT's "You Will" so often have an authoritation bite.) Systems such as Fireth and Alexa-not to mention the Web itself—are supposed to offer a viable alternative to that top-heavy model. "The greatest structural impact of the Net is decentralization, things and people no longer depend on a center to be connected," writes long-time industry analyst Esther Dyson in Release 20 A Design for Living in the Digital Age. "It's worth stressing that although the Not can be used for good and bad (like most powerful tools), it is asymmetrical in the way it gives power to the powerless. That is, it undermines central authorities . and it helps dispersed forces to act together

These are encouraging words, to be sure. But in the end, the problem with Dyson's vision is not so much philesophical as it is empirical. Decentralized systems, as it turns out, do not always produce decentralized results; they're prone to what economists call "increasing returns." In market economies, increasing returns are a possibility in any system in which a product's value varies in direct proportion to the number of other people who are also consumers of that prodnct. If a given product grows more appealing with each purchase, eventually it may reach a certain, hard-topredict threshold (sometimes called a tipping point") at which its popularity becomes self-generating that is, people buy more because more people are huving

For economists interested in questions of market efficiency, "increasing returns" is no issue of great contemporary import. (Not least because it offers the most plausible explanation to date for Microsoft's domination of the software industry.) But if intelligent agents become a significant factor in the formation of cultural taste or in the formation of cultural taste or in the sharing of collective wisdom, then the issue will extend far beyond the economic think tanks and business schools.

Imagine the following scenario: a new book comes out, and ten people srumble across it through old-fashioned word-of-mouth or advertising. They

noting a software agent desire the book and give it a high rating. The agent then recommends the book to a hundred people who have tastes in common with the original ten. It only a handful of the participants in the second round and the book appealing, then it will quickly subside back into obscurity. But if the book fares well in the second round, it can easily skyrocker thousands and thousands of people will suddenly have the title recommended to them. For books that genuinely deserve the proise, this can be an incredibly powerful-and, in its way progressive-state of affairs. (Think of Dyson's giving "power to the powerless.") Books that don't have huge marketing budgets or brand-name authors behind them can ride these feedback loops to a justified mass success. In a strange way, these systems echo what limi Hendrix and Pete Townshend and Lou Reed did with feedback and the electric guitar thirty years 220. They take a familiar sound-in this case, the time-honored tradition or word-ofmouth-and amplify it beyond recognition. Instead of telling a few neighbors about the latest novel you've read you can now tell a thousand.

There's something intoxicating about that amplification, of course, but also something deatening. Great books might rise to the top more easily, but so might mediocre ones. As Lanier has argued so persuasively, intelligent software usually involves some kind of selffulfilling prophecy, in which the aura of "intelligence" compels the human to project wisdom onto the agent's advice. even if it doesn't turn out to be all that wise. (In this respect, the decentralized agents of collaborative filtering aren't so different from the soothsavers of Psychic Friends.) It doesn't take much projection to nudge the recommending agent toward a tipping point, if people turn out to be twice as likely to enjoy something that they've been told they will enjoy-and the success of traditional advertising suggests that they willthen otherwise ordinary products will find themselves jettisoned into mass popularity, for no other reason than that they happened to stumble across a sipping point in their journey through the database. Of course, anvone who has been subjected to a Hootie & the Blownsh album will tell you that insanels popular mediocrits in norhing new, but Hoorie hiters can at least thunder against the P.R. departments and the coolhunters at MTV, who regularly tost schlock culture onto willing audiences. In the decentralized ensurements of collaborative hitering, it will seem as though the consumers brought the schlock on themselves, even though the real culprit, lurking somewhere in the deep math of the pattern match, will lie elsewhere: in the software itself and its propensity for increasing returns.

Latrem seeking is already on its way. to becoming one of the primary mechanisms in the great Rube Goldberg contraption of modern social life-as familiar to us as the more traditional devices of supply and demand, representational democracy, consumer polls. Intelligent software already scans the wires for constellations of book lovers or potential mates, (Firefly lore includes oft-told stories of married couples who originally mer via the partern marchinaking of the software itself.) In the future, our networks will be caressed by a million invisible hands, seeking patterns in the digital soup, looking for neighbors in a land where everyone is by definition a stranger

Perhaps this is only fitting. The evolutionary biologists tell us that pattern recognition is one of the earliest forms of intelligence According to the "selfish gene" theory, an organism capable of recognizing its kin by detecting patterns in physical appearances possessed a unique evolutionary advantage over its fellow creatures: it could tell which sets of genes were worth protecting. Our brains got to where they are today by bootstrapping out of that primitive form of pattern matching; perhaps the software of today lies at the evolutionary foothills of some larger, distributed consciousness to come, like the Skynet network from the Terminator tilms that "became self-aware on August 29, 1997."

Some critics argue that computers will never reach the point where they can self-consciously emote along with Terms of Endearment or savor the first chapter of Roger Ackroyd. Certainly the evidence suggests that genuinely cognitant machines are still on the

distant technological horizon. Intelligent agents don't listen to music: they listen to numbers that we sunply, and let us deal with the air guitar and the off-key warbling. On some basic human level, that feels like a difference worth preserving-and maybe even one that we won't ever be able to transcend, a hundred years from now or more. But is it truly a difference in kind, or is it just a difference in degree? This is the question that has haunted the artificial-intelligence community for decades now, and it hits close to home in any serious discussion of collaborative filtering. The computer doesn't listen to music; it looks for patterns in tiny pulses of electric energy and converts those patterns into information that is usefulor at least aims to be useful-to human beings. Surely this process is miles away from luxuriating in The Goldberg Variations or whistling along with Hanson

But what is listening to music if not the search for patterns in the otherwise chaoric sound field that surrounds us every day? One tool scans the zeroes and ones on a magnetic disk, the other scans the frequency spectrum. What drives each process is a hunger for patterns, equivalencies, likenesses; in each the art emerges out of perceived structure. (Bach, our most mathematical composer, understood this better than anyone.) Will we ever feel fully comfortable taking our aesthetic cues from software? It's too early to tell. But in a world where the information that is accessible online is doubling every eight months, it is clear that some form of pattern matchingall those agents scouring the Net for signs of common behavior, relevant ideas, shared sensibilities-will eventually influence much of our mediasaturated lives, maybe even to the extent that the pattern seekers are no longer completely dependent on the commands of the masters. And where will that leave the software then? What makes music different from noise is that music has patterns, and our ears are trained to detect them. A software application-no matter how intelligent-can't literally hear the sound of all those patterns clicking into place. But does that make its music any less sweet?

Switching Jobs Can Have An Unfortunate Effect On Your Retirement Savings.



Don't Lose 40% Or More Of Your Retirement Plan To Taxes And Penalties.

Call For Your Free Information Kit Today

T. Rowe Price can help. Call for our free kit on managing the payout from your former employer's retirement plan. The kit clearly explains the pros and cons of all the distribution options, so you



can decide what's best for you. Because we'd hate to see your retirement plan go all to pieces.

1-800-541-5856



Request a prospectris with more complete information, including management fees and other charges and expenses. Read of carefully before you invest or send money. To Rowe Price Investment Services, Inc. Distributor: IRANA

SOLUTION TO THE AUGUST PUZZLE

D	Ε	C	hΛ	K	B	C	Δ	P	R	0	N
						-					
						W					
М	Ε	\$	0	Z	0	A	Т	W	E	Ε	D
						Т					
						Ε					
W	Α	Т	Ε	R	T	R	Α	P	S	Н	U
D	Þ	D	\subset	Ε	Α	Р	Ε	Α	Н	E	Ν
Ρ	R		Ε	D	I	R	E	L	Α	Ν	D
1	N	D	1	Α	N	0	G	0	D	Ε	Υ
						0					
Z	E	5	T	E	R	F	M	Т	W	М	D

NOTES FOR "PLAYFAIR SQUARE—II"

The key-word is SWITCHBOARD

Anagrams are indicated with an asterick (*)

ACROSS: 1. K.-eepe(rev.)-R., 6. car-no-Birev.) - ii. S(6.)L-nC.E.O./K-F., 12. g(css)o: 13. wc(slext) | yev. | 14. *, 18. Press-eiects; 20. water-traps: 25. pe(s-heln. 27. humonym: 28. l-r.-eland, 29. mil/dfeev.)-pin, 30. G(O)dev., 31. ad-option 35. hidden. 33. enide* DOWN. I. dog(M.A.)is: 2. pun. 3. go-s(lowly)-sip. 4. ma-son: 5. *, 7. A.C.-et al., 8. res-weep. 9. B.O.-Les: 10. f(ar)-ought: 13. proof (under water): 17. *; 19. t-piece-tatev.). 20. S-entry: 21. Red-at-E. 22. sh(A.D.)ow; 23. homonym. pun; 24. so-dioffrev.): 26. *

SOLUTION TO AUGUST DOUBLE ACROSTIC (NO 187), HOWARD) L. KATZANDER: AND TROUGE AND ART. Look in the corners of the shop for erims, clumsy-looking bronze pois that ... might be Hain Dynasty But dealers can put a questionable antique ... in a corner and let it gather dust ... writing ... to be "discovered" by an unwary shopper.

CONTEST RULES. Send the quocation, the name of the author, and the title of the work together with your name and address, to Double Acrossic No. 188. Harper's Magazine, 666 Broadway, New York, N.Y. 10012. If you already subscribe to Harper's, piease include a copy of your latest mailing label. Entires must be received by September 7. Senders of the inst three correct solutions opened at random will receive one-year subscriptions to Harper's Magazine. The solution will be printed in the October issue. Winners of the July Diuble Acrossic (No. 190) are Charles Park, Tinley Park, Illinous: Krist Thorn, Madison, Wisconsin, and Joseph Perfect, Poobbro Massachuserts.



December 1998

Timber!

Canadian researchers complete an initiative to track the genetic fingerprints of yellow and red cedars. The Canadian Forest Service hopes that this treebank will help Mounties catch and prosecute rustlers, who make off with about US\$1



billion annually from the sale of the country's timber. Law-enforcement officials will soon take DNA samples from everything from a log to a pine needle to determine whether the wood was harvested illegally.

Winter 1999/2000 Smart Fridge

Households switch on the first Web-enabled refrigerator, created by Okayama's V Sync Technology, Connected to the Net via high-speed cable networks, the IP cooler lets home owners send email, order groceries, or check their local garbage-collection schedule. The door is graced with an LCD touchpad running 24-7 over Windows or the popular Linux OS. You can even watch cable TV on the screen – turning your icebox into an idiot box.

RetrOS Amiga, w

multimed with its g ics compi 5.0 OS. The forgoes the on the mi that won same soft. Microsoft home-core '90s. Runni

Silicon R Optobionic

5.0 can be variety of r

from the n

ing console

with Stanfo an artificial market, givi with certain chance at siin the impla light to elec which promisend messac



Although the late into 20/20 detect light w. normal humar users can see t of a remote co of a hot muffle

FROM: ANTENNA GROUP PHONE NO.: 415 896 1094 Our I did Just WIRED we v on a appi Pirating Divx Symbian If I n to m Angei HALO aircraft Ema Censorware app. mandated by Uncle Sam new VX Portale. Surf engines Olestra chips Biochips Vintage VWs Vintage bicycles WorldCoMC! AT&TCI Nicotine gum Caffeine gum

WIRED SEPTEMBER 1998





1 - 7 0 -

The Stor Report

TABLE TALK

Are newspaper's just another business? Discuss whether we expect too much out of the press in the Media area of Table Talk



Are we turning critics into rating machines? Also: Jon Katz takes his Glorious New Media Revolution show on the road.

BY JAMES PONIEWOZIK

RECENTLY

Lashed by Lish By David Bowman A former student emerges unscathed from the legendary fiction editor's writing workshops (09/01/98)

Diana: One year later, still dead By Peter Kurth The anniversary of Princess Di's death brings yet another deluge of books seeking to make hay on the most covered event of all time (08/31/98)

Gear and loathing By Mary Elizabeth Williams Gear, Guccione Jr.'s latest, strikes below the waist (08/27/98)

Will Mother Jones become more politically correct? By Ashley Craddock The resignation of Mother Jones editor Jeffrey Klein sparks fears that the magazine will hew to a left-wing party line (08/24/98)

Repeat offender
By Tom Mashberg
A fellow Boston

For all those bleary-eyed readers who have thrown up their hands in frustration after wrestling with the defiantly abstruse prose of a People "Picks and Pans" review -- the thick patches of untranslated German, the exhaustive footnotes, the digressive references to the early work of Wittgenstein -- relief has arrived. This spring, the magazine began giving its mini-reviews a "Bottom Line" tag: a few words that give readers the gist of the -- well, the gist -- that preceded them.

The insta-comedy book "Viagra Nation"? "Bottom Line: Potent humor" -- a whopping 98.4 percent savings in efficiency over the 125-word review. Vanessa Williams' "Dance with Me"? "An invitation worth accepting."

Absurd as it is to further encapsulate an already gel-coated brief, this innovation amounts to a defiantly literate, even quaint, statement. For People's Bottom Lines avoid the ubiquitous practice of summing up a review with a numeral, grade, star constellation, or arcade-style glyph. In these days of criticism by the numbers, People is defending *the word*.

I will not stretch human charity by expecting you to pity the critic. But consider this: What other writer is regularly expected to append his work with a shorthand tag to help people avoid reading it altogether? Always well-loathed, critics are suffering insults from all sides today: Their work is rendered diminutive by service-minded, catchy ratings systems and capsule reviews, superfluous by the customer forums and reviews for hire of merchants-cum-publishers like Amazon.com and even made automatic by online product-recommendation software.

True, in terms of sheer volume, this may be the golden age of criticism. Online media, for example, are effecting perhaps history's greatest transfer of wealth from <u>deep-pocketed sugar</u> daddies to scheming scribblers who, in a saner

newsman offers a scathing obituary for disgraced Boston Globe columnist Mike Barnicle, after he was finally scraped from the newspaper's hull (08/20/98)

BROWSE THE UNDER THE COVERS

BROWSE THE MEDIA CIRCUS ARCHIVE



economy, would be safely penning letters to the editor in their basements.

But from the standpoint of critics' actually being read, the prognosis is murkier. A populace with widening entertainment choices needs opinions by the busload, and it gets them in the form of Zagat's and Wine Spectator's numbers, Rolling Stone's stars, Michelin's toques and Entertainment Weekly's grades. In other words, *ratings* are more in demand than ever; it's the reviews we can do without. And while for the few lucky, well-branded Eberts among us, a famous rating scale can be a gold mine, the great, indistinguishable horn-rimmed masses are in danger of becoming the elevator operators of media: vestiges of a bygone era, whose presence lets you know you're in a classy joint, but who do little more than push the numbers.

Check out, for example, the music-rating chart in the new <u>Gear</u> magazine; a variation on the classic 4-star system, it uses road-sign icons of little men:

4 little men: "Most excellent. Buy, buy, buy."

3 little men: "Very good. Invest if you can."

2 little men: "OK. Proceed with caution."

1 little man, wielding a shovel: "Shit."

Whatever this system says about Gear's tits-and-assets men's-mag ethos, it tells even more about criticism today, because it unapologetically admits its purpose is simply to tell us -- in an efficient way -- what to "buy, buy, buy." What's more, it essentially says that there is only one grade of album not worth buying: "Shit." Believe it or not, even a music critic, forced to use this all-or-nothing scale, is going to think hard before dropping doody on an artist in a national magazine. And in fact not one album in Gear's first issue wears the mantle de merde: Buy 'em all,

immediately, tomorrow or eventually.

If reviewing is now in a standoff of service vs. criticism, text vs. numbers, elitism vs. populism, the trenches may be the pages of online stores like Amazon.com; there, hired-out pseudocriticism shares space with (mostly positive) excerpts from popular magazines and do-it-yourself customer crits. Place of privilege goes to the composite star ranking tabulated from customer reviews. And while highlighting the voice of the masses may be aw-shucks egalitarian, it's useful for a seller too. since, decent folk that the masses are, they tend to ladle the stars more generously than the cold-hearted pros. Squirrel Nut Zippers' "Perennial Favorites" earned faint praise like "Less could have been more," "Good, but also disappointing," "Not 'Hot,' but rather lukewarm" -- yet these three customers give the CD four stars out of five. which, at this writing, is also the record's overall composite rating.

Still, even Amazon's innovation requires someone actually impassioned enough to press the "send" key; for a true dictatorship of the proletariat, criticism must be automated. And in the September Harper's Steven Johnson looks at the next step in electrocriticism: online pattern-seeking software like the music-recommending Firefly and the Web utility which draw on vast databases to tout albums and Web sites on the basis of the earlier choices of users with similar tastes. Johnson has taken up the topic repeatedly in FEED, where he hailed Alexa as a return to the bottom-up model of the Web as universal mind; in Harper's, he adds the caution that such technologies could be snowballing, self-fulfilling opinion makers (as, say, political polls can) -- just a different way to "foist schlock culture on willing audiences." Indeed, a system like Firefly's is the sort of thing that could only seem like a godsend to someone with more brains than social skills -- anyone who thinks that a total system of peer-group feedback will reward artistic innovation obviously skipped

4 of 6

junior high. Cast one way, pattern seeking is a communitarian dream; cast another, it's philistinism as algorithm. Firefly doesn't know much about art, but it knows what we like.

But if critics are someday supplanted by search utilities and kibitzing online "neighbors," they -- or their editors -- will have paved the way. For these mechanisms are the logical, idealized extension of slapping numbers on subjective writing: criticism as a massive, searchable, compilable, multifunctional database. Quantified reviews aren't just reader-friendly anymore; more important for new-media purposes, they're machine-readable. I can already go to the New York Times' New York Today site and order a list of restaurants by star rating in any neighborhood, whereas in the newspaper I have to at least pass an eye over Ruth Reichl's foie-gras hosannas before skipping to the lowdown. (Possibly the most informative, literate New York restaurant resource online, in fact, is the amateur site run by lawyer Steven Shaw, who explains why he avoids star systems on principle.)

Granted, the fiction that complex critical judgments can be reduced to stars or bananas or whatever is often a useful one: If I can see in a half-second that a critic I trust hates "54," well, more time for me to do the crossword. But taken to its logical extreme -- and why should the geniuses of new media take a marketable concept anywhere but to extremes? -- critique-by-numbers could someday give us an exaggeration of today's two-tiered criticism system: Lane and Menand holding forth for the toffs, instant pattern recognition for the proles. Chris Bray, in the August Critics' Issue of Requestline, hopes that trends like the customer criticism at Amazon.com will, at best, free critics to concentrate on deeper matters: "The two-paragraph review can and should be shuffled off to the customer forum." In the same way, maybe online media's tendency to blurbify and quantify will at least draw a permanent line between recommendations and real

criticism. But will anyone put down the platinum card long enough to notice?

... That has such writers in't! You'd think someone who spent three years writing on media and information technology for a self-anointedly cutting-edge Web site would be the last person to use a musty phrase like "In the brave new world of Web media ..." to begin his final column, but that's why you're not Jon Katz. After his tenure of bringing such old-media prose stylings to said new world. Katz signs off graciously and gratefully in what he describes as an amicable parting with HotWired; the resolutely independent-minded, often hyperbolic ranter concedes, "The quality of my work was sometimes uneven" (he's too modest -- an uneven body of work is by definition *always*. not sometimes, uneven). Perhaps the most interesting aspect of Katz's last is that the frequently millenarian Web booster now admits, "We never became a political voice of a new culture" -- his yeomanlike work in support of the recent Digital Citizen poll notwithstanding. But let's not get carried away: The word "revolution" still appears thrice in his final piece. Fear not, though, lovers of Katziana. The columnist intends to bring his red flag and bandolier to a Web site near you, noting that he has already had talks with a couple. Be brave, new world. SALON | Sept. 2, 1998

James Poniewozik's Under the Covers column runs in Media Circus every other Wednesday.

SALON | ARCHIVES | SEARCH | CONTACT US | SERVICES | SHOP | TABLE TALK

21ST | BLUE GLOW | BOOKS | COLUMNISTS | COMICS | ENTERTAINMENT FEATURE | MONEY | MOTHERS WHO THINK | NEWSREAL | TRAVEL

6 of 6 9/2/98 11:32 AM 6, addition, it offers a solution to those annoying 1404 - Not Found messages by allowing users the ability to call up the most ecent copy of a page from its database. It is this database that the service examined to come up with the

figures outlined in its new report. Other factords found by the survey include the information that 90 percent of traffic is concentrated on 100,000 different host computers, while just 900 Web sites account for 50 percent of all Web traffic. It also estimated there are 20 million content areas, defined as top-level pages of sites, individual nome

pages and significant subsections of cor-

porate Web sites

- Martyn Williams, Newsingtes

US West, CWA Reach Tentative Agreement To End Strike

The Communications Workers of America (CWA) and US West have reached a tentative agreement on a new three-year contract, both parties said late Sunday night. The deal ends a strike that began at midnight on August 15.

the proposed deal offers substantial wage and pension improvements projects health case security and curbs excessive forced overtime, said the CAVA, which will now put the deal to its 45,000-strong membership.

The deal thrashed out by the two sides includes a compound wage increase of 11.3 percent over the next three years and a \$500 ratification bonus, plus pension improvements of 22.4 percent compounded over three years, and the establishment of a committee to look into implementation of a tump-sum option.

It also offers an increase in the savings match to 75 percent next January and 81 percent the following year, and limits on excessive, forced overtime that restrict manuatory overtime in a week to 16 hours next January and to a maximum of eight hours in a week by January 2001; workers will be guaranteed at least two five-day workweeks per mouth.

"These were intensive negotiations over challenging and often groundbreaking issues," said US West in a statement. "The CWA drove a tough bargain. Nevertheless, we were able to reach a fair agreement that will work for employees

hir company and most importantly, for costomers

Marrin Williams Soushing

Web-Based Postage System Launched

F-Stamp Corporation (www.estamp.com), one of two companies now testing electronic postage systems, is offering a Veb browser-based, no-hardware-required, online postage-buying system, authorized by the U.S. Postal Service (USPS) and aimed at small businesses

E-Stamp Internet Postage was tested in both the Washington, D.C. and San Francisco Bay areas, the company says. E-Stamp's system is offered in two flavors: E-Stamp internet Postage can be accessed from desktop applications such as Microsoft Word or from Internet Diowsers such as those from Microsoft, Netscape or America Online.

The company believes its scheme will be successful because customers don't need to download additional software or connect hardware to access the senace

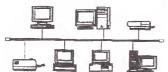
E-Stamp's Internet Postage also lets users print stamps on envelopes, labels or onto a document using a PC and standard printer

E-Stamp secured a total of \$16 million

COMPUTER NETWORKING: LEARN WHAT YOU NEED TO KNOW. FAST.

Learn it all with our acclaimed series of courses for working professionals combining computer hardware, software, and networking subjects into one comprehensive undergraduate program. For-credit courses include:

- · Networking Fundamentals
- · Local Area Networks
- Wide Area Networks
- Networking Architectures
- The Internet
- Internetworking Devices
- · Protocol Analysis
- Enterprise Network Design



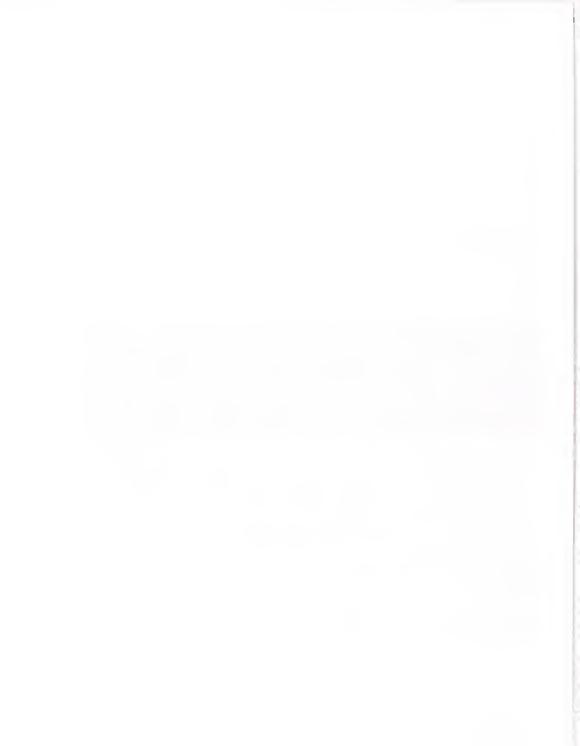
REGIS

School for Professional Studies

Nobody understands adult education like Regis.

Increase your value with these high-demand skills. Classes fill early, so please don't wait. Because while space is limited, your potential certainly isn't. To find out more about this state-of-the-art program, please call Regis University.

These courses may be applied toward a Bachelor's degree, a certificate in Computer Networking of may be taken individually—college credit applies. Visit us at http://www.regis.edu © 1998 RECIS UNIVERSITY



http://web.lexis-nexis-com/requester/ document?_enssets@eHauKO-MeSDAARGRUUARZD Document Listing

Friday, September 11, 1905





[Main Menu] [Last Form] [Document List] [Full View] [KWIC View] [Prev] [Next] [Hclp]

Document 3 of 7.

Copyright 1998 Reed Business Information Ltd. Computer Weekly

September 3, 1998

SECTION: NEWS, Pg. 6

LENGTH: 449 words

HEADLINE: NEWSBRIEFS

BYLINE: Bill Goodwin

BODY:

Suppliers indifferent to date bug plight

IT suppliers are ignoring the year 2000 needs of small companies, according to research by market intelligence firm Spikes Cavell & Co. The market for small- and medium-sized enterprises was misunderstood by the majority of IT suppliers, claimed the report. Most were focusing on large mission-critical software development projects. "It is a classic case of passing the buck," Spikes Cavell said.

Just another page on the Internet

More than 1.5 million pages are added to the Web daily, says new research. The Web is currently about 3 terabytes in size and is doubling every eight months, according to Internet statistics provider Alexa Internet. About 90% of Web traffic is handled by 100,000 host systems while half of all Web traffic visits just 900 Web sites, the research also found.

Intel to show off entertaining new chip

Intel will premier its next generation Pentium II processor next month. The chip - code-named Katmai - will be available from early next year, and is designed to improve the performance of 3D, imaging, audio, video and speech recognition applications. It will run at speeds of 500MHz. A spokesman for Intel said the microprocessor would bring enhancements to computer games first, but eventually would benefit corporate applications such as 3D presentations and architectural design software.

JD Edwards pins success on Oneworld

Enterprise resource planning software supplier JD Edwards last week reported post-tax profits up 150% to \$18.1m ((GBP) 11.3m) for its third quarter - up from \$7.2m for the same period last year. The company said better acceptance of Oneworld, its Unix and Windows NT-based package, was partly responsible for its jump in performance. The package accounted for 20% of the supplier's licensee fee revenue last quarter, compared with 11% last year.

UKfirms show investment nerves

Most UK businesses are techno-sceptics who see little reason to invest in information technology, although a quarter expect to sell more products electronically within five years. A recent BT poll of 550 companies found that 59% of firms were frightened by the level of IT investment required to keep pace. One-third said they would spend any windfalls on technology and 45% said IT would give them competitive advantage.

Bank expert warns of bug slowdown

A NatWest analyst has joined the list of economists predicting that the millennium bug will slow down the world economy. David Kern, chief economist at NatWest's market intelligence group said the date problem will cut the growth in the UK economy from 2.4% to 1.9% in the year 2000.

FROM : ANTENNA GROUP

PHONE NO. : 415 896 1094 Sep. 11 1998 10:41AM P4

http://web.lexia-naxis.com/roquester/ document?_ansaal=GeHauKO-MaSDAARGRUUARZDwww.computerweekly.co.uk

LANGUAGE: English

LOAD-DATE: September 8, 1998

Client ID: 160

Document Listing

Friday, September 11 1998

[Main Mcnu] (Last Form) [Document List] [Full View] [KWIC View] [Prey] [Next] [Help] [About LEXIS-NEXIS] [Terms and Conditions]

Converght© 1998 LEXIS-NEXIS, a division of Reed Elsevier Inc. All rights reserved

1A - 800

MAGAZINE FRIDAY REPORT Garden City, NY

Circ - 1,200 Weekly SEPTEMBER 4, 1998

Bacon's

database indicates an average day sees 1.5 million pages added to the World Wide Alexa_internet, which maintains a Web cache and database, says a survey of its 3995-A Web grows by 1.5 million pages daily, study estimates

+ (+) (+)

3985 H $\,$ $\,$ database of Web pages as part of the service it offers to users Alexa maintains a database of of its free Alexa service. Delivered through a small application, the service offers Web users additional information on each site delivered, such as site owner, popularity, server speed and site size.

level pages of sites, individual home pages, and significant subsections of corpoferent host computers, while just 900 Web sites account for 50 percent of all Web The survey also found that 90 percent of traffic is concentrated on 100,000 diftraffic. It also estimated there are 20 million content areas, defined as toprate Web sites.

Sep. 22 1998 10:54AM P3

PHONE NO. : 415 896 1094

FROM: ANTENNA GROUP

NI-0110

DAILY NEWSPAPER

THE STAR - LEDGER Newark, NJ

Clac - (M) 405,333 (8) 806,202

STATE EDITION EDITION SEPTEMBER 7, 1998

Bacon's

Let Alexa be your guide to more online sites

Allan Hoffman Setone to inc star at begin

Anyone searching for Web site recommendations doesn't have to look far to find them. They're everywhere these days: magazines, bill-boards, TV ads. The Web's most popular sites, the so-called "portals," from Excite to Yahoo!, draw millions of visitors on a duily basis looking for somewhere lest to visit.

Why, then, should you consider downloading a special software tool designed to ofter even more recommendations? For a simple reason 1% so smart, you'll think it's watching your every move 1 which it is, in a sense!

The tool, Alexa, will not put the portal sites out of business, but it may revolutionze the way people discover new sites on the Wol. Released a year ago, Alexa Is now gaining attention with a new version for Intenet Explorer 40 for Windows, an agreement to integrate Alexa's "related sites" features into Netscape Communications Corp's browsers, and a thoughtful essay on the implications of the software in the September Issue of Harper's magazine

Alexa does something rather sinple: It suggests sites as you suf the Web. The software, which is available for free at www alexa com, adds a window below your browser where Alexa suggests flicks as you move from one Web page to another.

Tatle env voules looking of

MSNBC. Alexa suggests other top news sites. CNN, ABC Naws, USA Today, and the New York Times. Visit The Trip. com, a popular site for business travelers, and Alexa suggests Microsoft. Expedia, Travelcelty and other travel sites. To see more sites than those listed at the bottom of the screen, select the "links" button, and Alexa will suggest additional sites.

Alexa doesn't suggest sites by keyword searches, like the search engine Alta Vista, or by creating a list of categories. Uke Yahoo! Those methods, while useful as a starting point, don't do a particularly good job of illiferentiating between the best sites and the worst — or even between popular destinations and obscureones.

Unlike those sites, Alexa analyzes the material on the Web — and the ways people move from site to site — in order to singgest spots similar to the one you're currently visiting.

From machines based in San From machines based in San Francisco — and connected to meers around the world — Alexa stinker patterns of Web usage by Alexa users it does so anonymously. Alexa also studies the text and phrase combinations appearing on Web pages to determine the similarities between pages. Combining its study of Web usage patterns and content analysis produces a continuously updated source of site suggestions as you move from one spot to another.

Give Alexa a spin, and you're

gence." Suggesting news sites may not be that impressive, but Alexa works just as well, or better, with more narrow interests. Visit Home-Shark, a site for home buyers, and Alexa suggests other top destinations, like HomePath and Cyber-Homes.

Aside from its suggestions of related sites, Alexa offers a number of other features. A "stats" button leads you to information about how popular a site is, how many other sites have links to that site, and user ratlings. (A "vote" button lets you say whether you like or dislike a site.)An "Archive of the Web" lets you find pages that are currently unavallable, assuming the page is stored in Alexa's archive.

As a piece of software, Alexa is easy to install and intuitive to learn You do have to put up with a small advertisement as part of the Alexa toolbar — the service is ad-supported — but it's worth it, considering the valuable service Alexa provides

Site of the week

www.glassdog.com Not your typical home page. Here's a motilisonsory playground from a falented Web designer, with "Design-O-Rama" (Web design instruction), "The Vacation Project" (fictional constructions based on random photos), and

Live online

more

ing an Independent contractor, from libe author of "Working Solo". Tomor row, 9 p.m., chat, yahoo com GEORGE TAKET — A.k.a. Mr. Sulu, from "Star Trek," Wodnesday, 8 p.m., chat, yahoo com



To connect to New Jersey Online: http://www.nj.com

IN THE KNOW

Join Glante practice Get our acclusive report direct from Giants practice every Monday and Thursday afternoon Veteran Giants beat writer Dave Klein files injury reports, game plan updates and nore, direct from Giants practice. You'll see it on NJO hours after practice ends. http://www.nj.com/giants/

BEST OF THE WEB

Be the first to be the beat Who's got the most powerful Web sie in New Jersey's small business community? The New Jersey Small Business Develop", ment Center is looking for that killer sie that puethes a business bound its competitors. Entry your sile on on you was petitions. Entry your sile on you was seen in the Center's linst. "Best of the." Wob'" awards Nominations must be made by Wednesday.

DREAM BUILDER

Take the fast track to your dream \$\frac{1}{2}\text{-house NJO's New Homes sile offersified most powerful search of New Jersey, clionie-building, And now you got event mole information with NJ Building Press, a database of Start-Ledger stories on the New House of Start-Ledger stories on the New House New

NA GROUP PHONE NO, : 415 896 1094

chips based on it hit channels around 2001, they will be in systems integrated at an unprecedented level, running at speeds today's technology cannot touch, the Texas company says.

TI will start new 0.07 micron chip design work in 2000 and volume production should begin in 2001. Among the new products TI predicts are tiny hearing aids that can be directly implanted in the inner car, wireless telephones with full video screens and alphanumeric paging, built-in asymmetric digital subscriber line modems that bring fast Internet access to everyone, and hard disk drives that can read gigabits of data per second.

The products that use these chips will weigh less, be smaller, consume less power and execute software faster than anything seen today. About 1,000 times thinner than a human hair, 0.07 micron transistors will be tiny enough to fit more than 400 million onto a chip the size of a fingemail. They will run at speeds of 1 ggahertz (GHz) and higher with digital and analog functions fully integrated, the firm says.

TI says the new high-density 0.07 micron process is the first to be designed for analog, as well as digital, operation.

As such, they will be able to integrate mixed-signal functions with high-speed digital logic and cores.

- Craig Menetee, Newsbytes

New Coalition Promotes Laissez-Faire High Tech

Calling for a government that governs less and better, the Technology Access Action Coalition formally announced its birth at a luncheon last week at the National Press Club in Washington.

According to the organization, "Recent actions by the federal government jeopardize the creativity and entrepreneurial spirit of this industry. Stifling the ability of technology companies to innovate and compete will hurt the economy and prevent the best solutions from reaching customers."

The TAAC's chairman is Vanstar Corp. President Jay S. Amato. Amato discussed what he sees as the highly beneficial contribution the technology industries have made to the economic and cultural life of Americans, indeed calling the high-tech field a "cornerstone of the economy."

However, he said, the "thousands of jobs across the nation and billions of Sep. 28 1998 11:35AM P5

dollars to the U.S. economy" essentially have been met with more regulation than ever before

TAAC's mission, according to Amato's statement, will be to lessen the government's hold on what the sector of the high-tech industry can do.

- Robert MacMillan, Newsbytes

Study Estimates Web Grows By 1.5 Million Pages Daily

Just how fast is the Internet growing? Alexa Internet (www.alexa.com), which maintains a Web cache and database, says a survey of its database indicates an average day sees 1.5 million pages added to the World Wide Web.

The same survey also estimates the current Web is around 3 terabytes and doubling in size every eight months

Alexa maintains a database of Web pages as part of the service it offers to users of its free Alexa service. Delivered through a small application, the service offers Web users additional information on each site delivered, such as site owner, popularity, server speed and site size.

continued on page 8

Hands-On PC Configuration, Networking and Troubleshooting Courses

Course #401: --- 4-days-\$995-Maximum 16 attendees per workshop

Denver: Nov. 3-6, 1998 Colorado Springs: Jan. 19-22, 1999

Here's what you can expect to learn:

- You will gain a thorough understanding of PC components and how they work together.
- You will learn a structured and systematic approach to upgrading, configuration, and troubleshooting that you can apply both over the telephone and face to face.
- You will be able to differentiate hardware problems from software problems quickly and accurately.
- You will be able to increase the speed and the long term stability of the systems you work on.
- You will know both WHAT to do when things don't work, and WHY you do it!
- You will be able to evaluate new technologies, and identify the products and services that will truly impact the way you work

In-Class Hands-On Workshops

- · Completely disassemble and reassemble a Pentium PC.
- CMOS configuration. What the options really mean!
- Separate hardware problems from software problems.
 Use beep codes and diagnostics cards to identify problems.
- Troubleshoot DOS: Windows 95 & 98's boot up sequence.
- in depth memory management, covering all available options.
- Install Windows 95 or 98 or Windows NT Workstation 4.0 from scratch. (You choose which one.)
- · Optimize Windows and install custom drivers
- Set up an Ethernet network.
- Configure add-in cards including tools for tracking and managing IRQ, DMA, I/O port and address usage.
- Hard disk management for efficent partition and formatting.
- Recover lost, deleted and damaged files off crashed hard or floppy disks. Virus infection, detection, removal demo.



This workshop will help you to prepare for the A+ Certification Tests Techstream Inc. is certified as an Approved School by the Division of Private Occupational Schools in the State of Colorado

NEAR NORTH NEWS

Circ - (M) 7,500 Sa

SEPTEMBER 12, 1998

Baconis

BAGE. A

Discovery worth every pixel of space it uses

Fordinand Magalhaens' ship, the Vittoria, circumnavigated the globe in 1520-21.

The great Portuguese navigator, better known as Magel-lan, was diverted by military operations in the Philippines. He was killed in action, so the 1st trip around the world was completed under the command of Schastian del Cano.

In 1988 Bill and Larry Gross convinced Lotus to produce Magellan, a universal hard drive file indexer and explorer that should have revolutionized the computer world. Sadly, Lotus was diverted by other operations, and Magellan, like its namesake, didn't survive to reap its proper reward.

A few years ago Digital Equipment Corp. launched its powerful Internet search engine, AltaVista, still the best of its breed. It became so popular that DEC extended it into a separate Magellan-like product called Discovery.

DEC, of course, didn't survive either. It was gobbled by Compaq, under whose aegis Discovery is a free, though huge (11mb), download at http://discovery.altavista.digital.com.

Discovery doesn't quite ful-



COMPUTING

BY JERRY MAIZELL

fill the promise of Magellan. It does go beyond it, with capabilities that weren't on the map in the '80s.

I have too many toolbars cluttering my Desktop alrendy—Lotus SmartSuite, MS Office, and Alexa—so I wasn't too pleased to find Discovery sticking yet another toolbar there. But it's worth every pixel of space it uses.

Discovery indexes (almost) every folder, file and word on your drive, which, with my 7.2gb drive, took about 2.5 hours. Once built, updating the index can be performed on demand, or scheduled at regular intervals.

I say "almost" because it didn't index my Lotus Word-Pro documents, though that format is listed in its configuration.

It works with Eudora and Outlook, but not Juno, and has some limitations with Pegasus mail. It is appropriately multilingual, though inappropriatefy limited to Windows 9x/NT.
The distinguishing advan-

the distinguishing advantage of Discovery is its integration of web, e-mail and document scarching. It indexes all the web pages you've browsed, or you may choose to have it keep track of only those you specify.

With one tool you can find all information on your drive relating to a purticular search, wherever it resides (with the exceptions noted above, and probably others.)

Discovery displays its results in your browser, highlighting your keywords everywhere they appear in a document.

Equally useful, and perhaps more so in many cases, is the Summarize feature.

You may have found a document of several pages that you don't wish to read at the moment, but from which you need to get the gist in order to get the gist in order to Just click Discovery's logo and



Beatriz Badikian

select Summarize from the dron-down menu.

One can set the parameters of the summary—how many sentences it should be, or a percentage of the original document—via a choice on the Options menu/General tab.

Your most recent 30 search inquiries (in simple, not advanced, mode) are saved for rcuse in the current session, accessible from a drop-down box.

Despite its limitations, Discovery is incomparably better than Windows' Explorer and crippled Find utilities. Anchoring it on your Desktop allows most, if not all, the information hidden in the depths of your drives to surface at your command.

E-mail: nnnews@ibm.nct; on the Web see http:// members.tripod.com/~inaizell_//

FROM: ANTENNA GROUP

DAILY NEWSPAPER SANTA CRUZ COUNTY SENTINEL Sanla Cruz, CA CA - D880

Circ - (M) 28,847 (S) 30,994

SEPTEMBER 14, 1998

Bacon.s

Old Web sites never die they just go offline 3985-A

- 3

By J.D. BIERSDORFER The New York Times

What happens to abandoned Web sites? Do they stay on the

one (or some program) deletes it A orphaned sites are a sad thing indeed. Ignored by its creator for whatever reason, a stranded page will just sit there until somefrom the host Web server.

is the host of a particular site will pull the plug if the site's creator afor moves on to other things, leav-ing a dead end from another page In some cases, the company that neglects to pay the bills or to upbe voluntarily shul down as its ereof time. A once popular page might

Archive (www.archive.org) is an organizaion that is trying to find, record and store a copy of every public document on the Web, dead or alive. The group's own site offers a link to a free program called Alexa. Internet that links to it,

which runs with your browser. If a dead page is in the archive, Alexa can show you what it looked like

that once burned brightly and then flickered out, visit Ghost Sites For a humorous look at pages active page that chronicles inactive (www.disobey.com/ghostsites),

about computer-based technology, by postal mail to Questions, Cir-cuits, The New York Times, 229 This column invites questions 3959 or by e-mail to QandA@ny-times com. This column will an swer questions of general interest, West 43rd St., New York, NY 10036ones and is updated monthly.

but letters cannot be answered in-

dividually.



September 14, 1998

Starr Report's Net Readers Not Interested in Smut?

By Rebecca Sykes

The Internet bore up under the strain of increased traffic over the last few days as users accessed prosecutor Kenneth Starr's report on U.S. President Bill Clinton – and it seems that civic concerns, not prurient interest, were driving many surfers' browsing patterns.

Salacious details in the report released Friday afternoon, concerning allegedly impeachable crimes committed by the U.S. president as he sought to cover up an extramarital relationship, might seem to have been the draw. But a spokeswoman for one site which carried a fully searchable version of the report said that usage patterns show that people were interested in the whole document, not just the smutty parts.

Some users did search on words with sexual meaning, but "I wouldn't say that that's the outstanding thing that you would see from looking at the search logs," said Hilary MacPhail, director of enterprise marketing at Northern Light Technology LLC, a research search engine company based in Cambridge, Mass.

Rather than leapfrogging from one sexual word to the next, usage patterns show that most people began at the start of the report and chronologically read many of its sections before petering out and losing interest, according to MacPhail.

"If it's at the beginning of the report, that's where the traffic's heaviest," MacPhail said.

And traffic was definitely up, all around the Web.

CNN reported double the usual traffic on Friday, the first day the report was available, recording 340,000 hits per minute on Friday afternoon. The phenomenon was visible to Alexa Internet, which makes a browser add-on and consequently collects information anonymously about its users' Web activities.

"We saw flash crowds occur for CNN," said Brewster Kahle, president of Alexa Internet, which is based in San Francisco.

Alexa did not see more people than usual flocking to the Net. Rather, users were unusually concentrated on sites which carried the Starr report, according to Kahle. One in seven Alexa users, or around 15 percent, viewed the Starr report on Friday, and 38 percent of all government-site URL requests were for the report, he said.

Northern Light, which had the searchable version of the report,

anticipated increased demand and put the report on a special server. Usage spiked up around 10 percent as users attempted to wade through it, MacPhail said.

People's interest in the 445-page document undercuts the conventional wisdom which holds that people want breezy news snippets on the Web, not serious reports, according to Peter Krasilovsky, VP at Arlen Communications in Bethesda, Md.

"Clearly, where there's something as important as this, they're willing to go to great lengths," he said.

Rebecca Sykes writes for the IDG News Service in Boston.

Site Search:

Cire - 10 000

SEPTEMBER 15, 1998

Baconis

TAKSTA

Calendar

September

21-24: Denver (Colorado Convention Center). Electronic Commerce World 1998 promises to educate current and potential users of electronic commerce technology. Its theme is "Business Solutions Through Technology Integration". The conference with ofter 70 educational sessions, industry leading keynote speakers, full-day preconference workshops, problem-solving roundtables, and an exhibit hall. Some of the topics to be covered include automated data capture, electronic data interchange; electronic catalogs, financial electronic commerce; and Internat and Web-based EDI.

Contact: Electronic Commerce World, 2021 Coolidge Street, Hollywood, FL 33020-2400, 888/ECOM-711, 954/925-9900; Fax: 954/925-7533; http://www.econworld.com.

October

12-14: Washington, DC (Washington Hilton & Towers). Online World, sponsored by Online, Inc., is a national conference that focuses on how to find and use Internet content and services. According to the announcement, librarians, Internet researchers, managers, information professionals; and others attend the conference to hear respected searchers share their expertise. This year's keynote speaker, will be Brewster Kahle of Alexa Internet, and the conference will offer dozens of sessions in six full tracks covering topics such as practical searching, intranet development, trends and technology, and resource management.

Contact, Online, Inc., 462 Danbury Road, Wilton, CT 06897-2126, 800/248-8466; Fax: 203/761 1444, into @online inc.com; http://www.onlineinc.com.

26-29. Pittsburgh (Putsburgh Halton). The ASIS 1998 Annual Conference will again in information access and what it in means in a global economy. Topics to be discussed include the fullowing: Who will be the information producers of jomorrow? What will be the effects of the lack in quality control exercised by iradicional publishers? What are the sucial effects of global information access?

A plenary session will be given by Hal R. Varian, deain of the School of Information Management and Systems at the University of California-Berkeley. His recent work has been concerned with its economics of information technology and the information economy.

Panel session topics include 'Advances in Social and Organizational Information Science,' "Theelectual Property Hearings," 'Theories of Information Science," "Intellectual Property An Oxymoron?" and "Accessing Full Text Integrating Electronic Resources (SIG LAN)."

Contact American Society for Information Science, 8720 Georgia Avenue, Suite 201, Silver Spring, MD 20910, 301/495-0900, asis@asis.org, http://www.asis.org.

November

1-5 Monterey, California (Monterey Conference Center, Doubletree & Marriott Holels): juterbet Librarian '98 is a mixlure of leading edge idens and tools at well as exciting new survices—all focused on information professionals and Internet related technologies. It features over 100 dynamic speakers in three si multaneous tracks each day, plus 24 workshops two evening sessions, and the new Internet@Schools '98 conference According to the announcement. Internel Li brarian '98 covers metadata and Web tools, Internet and intranet content, creating Web sites, intraner case studies, managing knowledge assets, training and instruction, virtual services, digitizing resources. infrastructure, Web management, Net trends, and more. Session track topics include metadala, content, learning, scarching, Web sites, transitioning, and virtual services. The exhibition hall will feature over 80 booths offening visitors a choice of products covering aspects of Internet, intranet, and library technology,

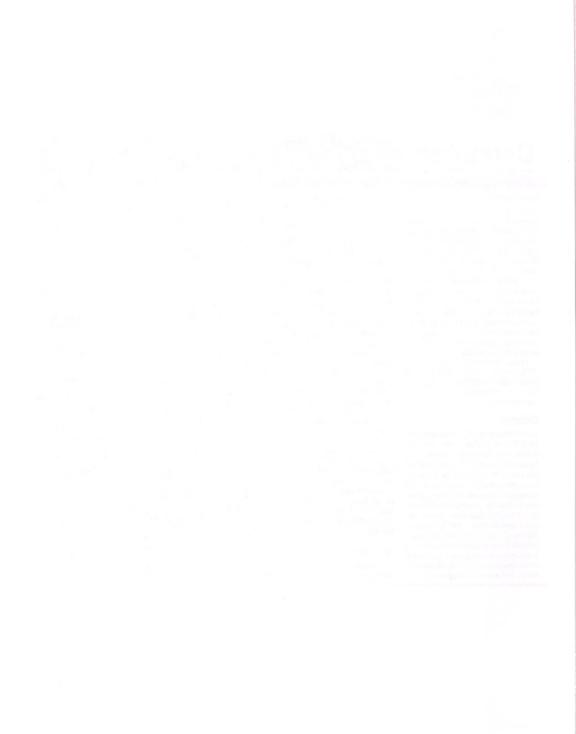
Contact: Information Today, Inc., 143 Old Martton Pike; Medford, NJ, 08055-8750, 609/654-6266; Pax, 609/654-4309, custerv@inforday.cpm.htm//www.life.inday.com

8-10. Washington, DC (Willard Inter-Continental Hotel). 30th Anniversary Information Industry Association (IIA) Annual: Conference will arm to open a window on the industry's future. This year is theme, is: Resettining Content—Permers and Profits in the New Millennium. According to the annual more industrial to the annual content concerns to the discussed at the content concerns in the right context for premium in

Tormation, whether syr free content better, who non will increase value with millions of users Internet a linemums aren't trading up to yal "Time magazine's-Walter Issacson, will ence's opening address day, November 9, Contact Information auph, Meetings Depar achusetts Avenue NW Inglos, DG 20036, 20 202/638-4403: mtgg http://www.itameets.c

December

8-10, London, U.K. Olympia Conference Online Information Exhibition, sponsore formation Europe, L information industry according to the anno Information 98 will online consumers, of goneration, bringing c the differences between services new distribute and the Web-finding a edge management, an more infurmation, chi formation 98 Web sf online information co Contact: Learned In LIU Woodside, Hinkse 5BE, U.K. 011-44-186: 44-1865-736354: http://



FROM : ANTENNA GROUP

MAGAZINE 57A - 80 CANADIAN MUSIC TRADE St. Catharines, ON

> Circ - 3,750 Bi - Monthly

SEPTEMBER 15, 1998

Bacon's

an any your province as yourself ------

.To put more direction in your web travels, try Alexa, free for download at www.alexa.com This desktop utility sits at the bottom of your web browser and gives you extensive information on the size you are visiting and recommendations on sites with related content. You can search through their archives to find pages that no longer exist and locate websites by subject on the Encyclopedia Britannica site.

... Steinberg North America has moved their website to www.us.steinberg.net. Featured are sections on their whole range of products as well a complete dealer list.

... If you are attending LDI in Phoenix this vear, visit their website at www.etccnvc.net/ ldihome.hun. You will find information on exhibitors, workshops and special events and you can register online.

... If you have access to a browser, but not to e-mail, one answer is Hotmail at www.hotmail.com. For instance. I am writing this column at Kinko's in Nashville and their machines do not have Internet cmail capabilities and I need to get the file to our office. Enter Hotmail. For free, you www.canadaone.com

Resources



can set up an c-mail account where you can send and retrieve mail from your browser. and keep a personal address book. You can even set up 4 POP mail accounts so that you can read your e-mail at home or the

office. It receives your POP mail instantly

and in a format that is superior to most email programs. Try it out.

... Canada One is an extensive business. resource site aimed at Canadian business. Aside from the wealth of information on business management and promotion, you can also list your own website. Visit at

The Music Industries Association of Canada (MIAC) has changed their address to www.miac.net. The site has been completely redesigned and expanded and included information on members, association activities and the MIAC Show held every August.

.. If you are attending the AES Conference in San Francisco, visit the Audio Engineering Site at www.aes.org You will find exhibitor information, events schedule. hotel information and registration details.

Norris-Whitney Communications operates The Music & Audio Connection. the international online resource for music enthusiasts, musicians, music and audio professionals. Included are classified ads, products for sale, company showcases, discussion forums, associations. music education, music & audio resources, career information and file libraries. Updates to the site are available by email or on The Pointcast Network Visit at www.musicandaudio.com. For more information, e-mail to info@nor.com, Fax (905) 641-1648 or call (905) 641-3471.

24 . CANADIAN MUSIC TRADE



0101001101010101



TECHWEB

Tech Web

The Technology News Site

Search news:

Search Advanced Search

Technology Stocks & Finance Internet

Week's Headlines

News By Category

Apple Chips

Hardware

International

Microsoft Trial

Networking Software

Storage Storage

Telecom Year 2000

Sponsored link

3-D Site Map

Technology News

Ine rechnology News site

Web Marketers Profit From Starr

Report (09/15/98; 12:00 a.m. ET) By Malcolm Maclachlan, TechWeb

It may look like a national crisis on TV, but the report on President Clinton by independent counsel Kenneth Starr is a business opportunity online.

The <u>445-page report</u>, which details a sexual affair between the president and White House intern Monica Lewinsky, went online Friday. Within minutes, people were trying to make money from it.

One opportunistic e-mailer used the occasion to have a "Presidential Impeachment Sale" on its bulk e-mail software. "Should the president be impeached?" it asked. "Tell the world." The ad invited people to use the Bulk E-Mail Combo to start an impeachment campaign -- and promote its business in the process.

Others spammed the Internet with addresses for mirror sites of the report. Another entrepreneur offered the Starr report on CD-ROM for \$75.

But the biggest news was the sheer number of people seeking the report -- and how major news organizations capitalized on it.

RelevantKnowledge, a Web traffic researcher, estimated 24.7 million people read the report online by late Saturday.

A survey by software company Alexa Internet found one out of seven people who were online saw the report. People seeking the report accounted for 38 percent of all traffic on federal servers, according to Alexa. During the first two hours the report was released, 8 percent of all Web search and address requests in the world were for the Starr report, according to Alexa.

Top Stories Free Net Access Rocks

Rivals To Challenge Intel's Notebook Business

Internet Shines As Clinton Testimony Airs

Opera Browser Adds Java, 128-Bit Security

Q&A With Arts Alliance's Thomas Hoegh

Lucent Eyes Optical Networks For Growth



ARE YOU ON THE LIST?

Sign Up Now!

Video + Audio Features Opinion

Humor

Related Resources
Buy Books
Buy Software
Company Profiles

Download Center Encyclopedia Events/Shows Product Reviews
Free Product Info
Career Search
Web Development

E-mail Newsletters Link To Us Send Feedback



Free E-mail Member Login

Password

Login Sign Up Now



Try It No.

"There were other ways you could watch the Mars landing, but this is how people read the Starr report -- even Congress," said Alexa president Brewster Kahle.

Many people said the volume of requests would shut out most people seeking the report, said Tom Leonard, associate dean of the Graduate School of Journalism at the University of California at Berkeley. However, mirror sites went up quickly, he said.

"It seems to have been distributed amazingly efficiently," Leonard said.

The distribution of the report shows how the Web has changed the rules, Leonard said. An interesting comparison, he said, is the release of the Pentagon Papers in 1971, where copying and distribution was a major barrier in getting the documents to the public.

"The difficulty of distribution was part of the story," Leonard said. "With the Web, that challenge is wiped away."

One major turning point came four years ago, he said, when the University of California at San Francisco obtained the Brown & Williamson Tobacco Papers. Tobacco manufacturers sued to prevent their distribution, but the university put the papers online, and the issue went away.

More Web users tried to get the report from news organizations than from government sites, according to researchers. RelevantKnowledge said it found 1.6 million people downloaded the report from federal government sites Friday and Saturday, while four times that number downloaded it from the sites of national news organizations.

Traffic at national news organizations doubled during this period, according to the RelevantKnowledge report.

News organizations were better able to handle the traffic, according to Keynote Systems, a research company that concentrates on backbone performance. It found government servers rejected nearly half the access attempts during the peak Friday and Saturday period.

The online versions of *The New York Times*, The Wall Street Journal, and *USA Today*, on the other hand, all had failure rates of less than 5 percent.

CNN Interactive had a failure rate of 12 percent, according to the <u>Keynote report</u>, but it also bore the brunt of the traffic, according to most reports. CNN Interactive said it reported a record 34 million page views for Friday.

Related Stories:

Starr Report On President Clinton Goes Online

Starr Report Could Trigger Porn Filters

Search Archives

Search

CMPnet SUPPLEMENTS



What all IT managers should know about Win 98 and NT 5.0.



Test your Small Biz IQ and you could win valuable software.

Today's Features

- ► See how to make telecommuting really work for your business.
- Sell more on the Web: Add a shopping cart to your site.
 Does Windows 95 boot too slowly? Dr. Speed has the fix.



▶ You're just 10 steps away from a lower PC TCO.



If you're interested in: Computers Click Here!





How-to-Buy Index
 Smart Shopper

Computer Shopper Magazine

Search Sites Refine Their Technology and Methods



The Pay to Be Found Model Is Spreading

by Hannah Kinnersley Originally published in the October 1998 issue

For the past year, it seemed like search-engine firms have been focusing on everything but searching. Features such as free e-mail, language translation, and stock quotes are all available from would-be Web portals, but rest assured that a lot of effort is going toward making finding information online faster and more intuitive as well.

Although not technically a search engine, Alexa Internet's Alexa 2.0, a "Weblication" that can be integrated into the most recent versions of Netscape Navigator and Internet Explorer, tries to find patterns in Web-site usage that will help surfers find what they seek.

Brewster Kahle, president of Alexa Internet, describes Alexa as a companion guide to searches. "Rather than offering a keyword search, Alexa uses Firefly Technology to leverage more information than the contents of the Web site, telling the user what other people thought of the page."

Other search-engine firms attempt to add some personality to their services. Ask Jeeves (www.askjeeves.com), for example, attempts to answer questions posed by users with sometimes hilarious but frequently useful results. When asked for the name of Sherlock Holmes' brother, the ninth response brought up a film title about the detective's brother Mycroft, but the third response listed a page about getting green cards for relatives.

As the number of users online has increased, so has the value of a given search result. Real Names is a service that, for \$100 a year, allows you to use a keyword as an actual address. By registering a brand name or product description, companies can bypass using URLs completely. For example, typing in "new beetle" in Real Names' search box takes you directly to Volkswagen's New Beetle page.

Another service, GoTo.com, also works on the pay-to-be-found principle. Results from GoTo's Inktomi-driven search engine are listed according to which companies paid for placement. A search for "books" shows that the top 34 sites listed will pay GoTo anywhere from a penny to 10 cents for a hit. Over 1,000 advertisers so far have bid to pay for high placement, including Barnes and Noble and Online Auto.

However, as David Card, an analyst at Jupiter Communications points out, "Just because someone paid for a top spot doesn't mean it is the most useful."

As the Internet expands, the problem will not be how to find information, but creating a format for presenting it that will make it useful. According to Card, "It's no accident that Yahoo leads the field. Having humans make decisions on content classification marks the difference between raw data and information."

Return-Path: <quimby@antennapr.com>
Date: 16 Sep 98 14:57:39 -0700
From: Quimby Mills <quimby@antennapr.com>
Subject: Alexa:Demoletter Weekly Edition, September 14, 1998
To: cynthia lohr <cynthia@alexa.com>
Reply-To: Quimby Mills <quimby@antennapr.com>

Hello Cynthia,

Alexa is Chris Shipley's Demoletter! Yay. BTW - 2:00pm Friday 9/18 is OK with Steve Hess. He has directions and will see you there.

Quimby

Quimby Mills
Antenna Group Public Relations
ph: 415.977.1914
fx: 415.896.1094

Date: 9/14/98 5:25 PM From: Chris Shipley

DemoLetter Weekly Edition September 14, 1998 Volume 3, Number 28

Companies in this issue:
Digital Photography: Kodak, Intel, Hewlett-Packard, Seattle FilmWorks
CapShare: Hewlett-Packard
Archiving the Internet: Alexa Internet
End Notes: US West, BellSouth, Netscape, AOL, Adobe, Microsoft,

INTEL AND KODAK HEADING OFF FOR ANOTHER EXCELLENT ADVENTURE IN DIGITAL PHOTOGRAPHY

Intel and Kodak are ready to roll out a massive marketing campaign and some new products aimed at the digital camera market, according to online reports that surfaced late last week. The event is slated for September 23 and will feature Kodak's announcement of a new service from Kodak that allows users to more easily turn conventional pictures into digital images (which will be burned into CD-ROMs by Kodak) and which could be subsequently taken by consumers to Kodak (or third-party) kiosks where they could get enlargements or copies of their pictures. The pictures could also be read on high performance desktops and notebook PCs. Intel is going to use the event to plug its internally developed digital imaging technology and is reportedly willing to help fund a marketing plan for the new service that could be worth up to \$150 million, according to the reports.

Digital imaging and photography are technologies that everyone thinks are symbiotic. And if you're hip deep in technology these technologies look even better. But this market has yet to develop (no pun intended). While the cost of digital cameras and digital photo processing has come down recently, output is still prohibitively expensive. HewlettPackard's exquisite photo printer--for which the HP has launched an aggressive rebate program--is still in the high hundreds of dollars. That's tough to justify for a \$15 dollar per month hobby. Film-to-digital photo processing solutions such as the one Kodak is launching (and whose basic pproach is similar to the one that Seattle FilmWorks has tried for years) haven't become popular and still require too many steps. And although the idea of near

instant prints from a CD seems insanely great, does either company have deep enough pockets to get the add-on machinery in place on a nationwide basis in a timely fashion?

I've been accused of being a curmudgeon before. I still believe that digital photography is one of the hot applications that will not only create new classes of computer use, but also can create wealth for startups and their financial backers as well as existing companies like Kodak (and to a lesser degree Intel). But before this can happen the cost and complexity of the consumer's transitions from conventional to digital photography have to drop significantly. The one thing that is whittling away at these obstacles, however, is the Internet and the massive number of personal home pages where folks are posting baby pictures and reunion shots for friends and family to share. Personal home pages are fueling the move from film to digital photo processing.

HEWLETT-PACKARD DELIVERS ON INFORMATION APPLIANCE PROMISES
This morning, HP's Greeley, Colorado, division took the wraps off a
long-held secret--its CapShare 910 data capture and communication
appliance for mobile professionals. CapShare is a portable scanning
system that operates on two rechargeable batteries (or for less time
on standard AA batteries in a pinch). Unlike previous hand scanners,
you can capture images with the device by swiping it over a page
using single or multiple passes. The device stitches the image and
compresses it in order to store up to 50 pages. Scanned images can be
transferred later to another computer or other device using the built-in IR.

I've been testing the device, which weighs in at 12.5 ounces and fits comfortably in hand, for several days and, universally, the CapShare captures the imagination of the people I've shown it to. I find it to be a fantastic way to grab all those pages I'm typically tearing from newspapers and magazines. I can transfer images to my laptop from which I can email or fax them to others. At \$699, I find it a little pricey, but that figure has met no objection from the very mobile professionals for whom I've demonstrated CapShare.

CapShare demonstrates both HP's technical prowess, its market -research driven approach to product design, and its willingness to move into new territories. Over the last eight years, HP has increasingly been willing to turn creative employees loose on alternative technologies. While it's difficult to predict lines of other products, I suspect that we'll see several new information appliance devices (including perhaps one based on Java) from HP in the next 12 months. And rather than a "one device fits all mentality" you can now count on HP to look at specific markets.

WHAT WOULD YOU PUT ON 2,083,332 FLOPPIES? How big is the current Web? About 3 terabytes (the equivalent of 2,

083,332 floppies), and growing by 1.5 million pages a day. Alexa Internet has been in the business of archiving the Internet in recent years and has become a remarkable resource for Web statistics. Some of Alexa's recent findings:

- * A current snapshot of the Web is 3 terabytes, or 3 million megabytes.
- * The Web doubles in size every 8 months.
- * Ninety percent of all Web traffic is spread over 100,000 different host machines.
- * Fifty percent of all traffic goes to the top 900 Web sites currently available.

More Web statistics are available on Alexa's site at www.alexa.com.

END NOTES Is Internet telephony about to go under a federal microscope? Last week US WEST said it was allying itself with BELLSOUTH to try to make ISPs pay the same rates as phone companies. The argument here is that if ISPs are going to offer voice service, then they're going to have to pony up the same tariffs and access fees as phone companies. My bet? Even though Internet telephony is a tiny subsegment of an ISP's traffic, ISPs are very likely to find themselves in a whole new regulatory and fee-based ball game in the near future. And that's bad news for the small number of startups and their financial partners with products in this area. The telcos could, however, be making a political play. At the recent Aspen Summit, executives at several telecommunications companies argued that the regulations under which they must function put them at an unfair disadvantage with other Internet bandwidth providers . . . ADOBE today introduced one of the nicest products I've seen for Web page design by mere mortal business people. Adobe ImageStyler helps you create live objects, Java rollover effects, and other design elements quickly and without a degree in graphic arts. The package sells for \$129 and is available on the Adobe Web site at www.adobe.com . . . How many copies of independent counsel Kenneth Starr's report were downloaded and printed Friday and Saturday? The best quesstimate is more than 10 million. And Netscape's NetCenter, AOL, and a few dozen other sites mirrored the full report in what might be the first real test of the Web in this country. And what were people doing with the document? One local office supply outlet here on the San Francisco Peninsula cleared out its HP ink jet inventory on Friday night and put a serious dent in its laser cartridge inventory through Saturday MICROSOFT and US DOJ attorneys want more time and according to published reports that surfaced late last week have requested a delay in the start date of the Microsoft trial. Both sides have asked for a push back to October 15 but Judge Thomas Penfield Jackson has yet to issue a continuance . .

DEMOLetter, Weekly Edition is edited by Chris Shipley (chris_shipley@demo.com) and is published on the second through fourth Monday of each month as a benefit of subscription to DEMOLetter. Annual subscriptions are \$495 US. Address subscription queries to meg_burns@idgconferences.com. DEMOLetter is a product of the IDG Conference management Company, a subsidiary of IDG WorldExpo. Copyright 1998. All rights reserved



Electronic Version of



Daily Macintosh News, Analysis, Information, and Resources!

MONDAY'S NEWS

Last Updated: 7:02:10 AM Wed, Sep 16, 1998

Headlines For Wednesday, September 16th

Finding People On The Net (With Your Mac) By Nancy Grayley: My First Mac Was A Typewriter

A wonderful benefit of the net is the ability to find specific people, whether they be old friends, old school mates, lost family members, or old loves. It does work, and I know people who have found friends they knew 30 or more years ago, including one person who has rekindled an old love. I know someone else who began searching for a friend from college....

Read

My First Mac Was A Typewriter

Entrega Introduces iMac Matching USB Hubs

[6:15AM] Entrega announced 2 USB Hubs today that will match the iMac's color scheme. The new hubs come is either a 4 port or 7 port variety and allow any Mac or PC equipped with USB to connect USB devices to their Mac (or PC). According to the company's press release:

"Mac owners have a discerning eye, and we wanted to make a hub specifically for them," said David Murray, vice president of product marketing at Entrega. "We designed our new hubs to match the iMac colors -- they look great together!"

Reviews

Webintosh Perspectives

Information

First Looks

Contact Information
Advertsing

Features Awards

Webintosh Archives

around the web for Wed, Sep 16, 1998

Return To Sender - <u>The Clearer</u> Picture

New iMac Sales Still Hot- News.com

Apple Debuts WebObjects 4 with Support for Power Macintosh G3 Systems -PR Newswire

Jobs Debuts PowerBooks with Scalable 14-inch screens - <u>Macworld</u>

the webintosh spotlight

Finding People On The Net
(With Your Mac)
By Nancy Gravley:

My First Mac Was A Typewriter

My Firs Mac Was A Typewriter by Nancy Gravley: My First Mac Was A Typewriter

Ok. Lets get the confessions out of the way first shall we? I learned to type on a manual typewriter. I thought the IBM Selectric with the option of changing fonts was the greatest invention imaginable. I remember when there was... September 9th

Quark, Adobe, M&A ... and Decadence?
by Bill Troop

I've always believed M&A (mergers

The company also announced a series of USB cables that are not, unfortunately, colored. The hubs will retail for \$79.95 and \$129.95, depending on the number of ports. Pricing for the cables was not announced.

News.com - SCI Systems

NEC and Altec Lansing Announce Mac USB Products

IS:40AM] NEC and Altec Lansing have announced a new product line jointly developed called IntelliBase. IntelliBase is a monitor base designed that includes either 4 USB ports, a speaker system, or both. The speaker system is a digital USB sound solution that processes sound at the speaker level. This negates the need for a sound card or onboard sound as in the Mac, but it is not clear if it will work with the Mac.

NEC - Altec Lansing

Headlines For Tuesday, September 15th

MacMall Introduces New Software Site

[12:48PM] MacMall has announced a new site for Mac software called the Macintosh Software Buyers Guide. This new site is designed to bring in Mac buyers by bringing together one thousand Macintosh software titles in one virtual location. Since finding software is often difficult for Mac users, especially in retail outlets, MacMall may find willing buyers lining up on the internet.

The Webintosh Spin: We found the interface of the site to be klunky as well as slow, but this is likely due to the fact the site is driven by Active Server Pages. We also found that many outdated versions of software were being offered, some over a year out of date. Other inconsistencies include GoLive Cyberstudio being offered on the home page but not the web design section. If MacMall can correct some of these opening day bugs, the site could be an excellent resource for Mac software buyers.

Macintosh Software Buyers Guide

Demand For iMac May Lead To Outsourcing

[12:22PM] News.com reports that Apple may increase the manufacturing capacity for the iMac line by outsourcing to SCI Systems. SCI Systems has handled Apple manufacturing in the past and with sales of our favorite Bondi-Blue Mac

potent indication of corporate decadence...

August 27th

The iMac Rollout

We were able to spend a few hours at CompUSA's iMac rollout in Austin, Tx. on Saturday morning. From the moment we entered... August 15th

cool tool of the week



This cross-platform toolbar is designed to work with a web browser. It gives you access to instant statistical information based on other Alexa users (which the company sells) while guaranteeing user-anonymity. Domain information, general traffic info, and even an online-poll (hint: Vote for Webintosh!) are all instantly attainable

THE MAC TICKER (As of 9/16/98 10:14 AM)

Adobe Systems: Apple Computer: 31 ¹/₈ (up ⁹/₁₆) 37 ¹/₂ (down: ¹¹/₁₆)

10 lomega:
40 3/8 (down:
5/16)
4 11/16 (up: 1/16)

 $\begin{array}{ll} \text{Macromedia:} & \text{MetaCreations:} \\ 13 \, ^9 /_{16} \, (\text{up:} \, ^3 /_{16}) & 3 \, ^1 /_8 \, (\text{unchanged}) \end{array}$

The Dow Jones Industrial Average: 8029.28 +4.89 (+0.06 %)

exceeding all predictions, Apple may turn to SCI again to help meet demand. SCI's market niche is manufacturing other companies' products and they currently make systems for Compaq as well as Hewlett-Packard.

News.com - SCI Systems

Quark Ends Charade

[10:40AM] Quark has officially ended its pretense at acquiring Adobe. Citing Adobe's unwillingness to even talk about the plan, Quark has ceased its efforts.

The Webintosh Spin: The company sounds almost surprised that Adobe was not interested. That reaction is the real surprise.

Quark - Adobe

Headlines For Monday, September 14th

IBM Announces Breakthrough Display Technology

[4:20PM] In the second time in as many weeks, IBM has announced a breakthrough technology, this time in the world of flat panel displays. The new technology boasts an incredible 200 pixels per inch (ppi) resolution which the computer giant says makes it virtually indistinguishable from the printed page.

The Webintosh Spin: Wow. Once this technology makes its way into products, all bets are off.

Read The Full Webintosh Story

Epson Announces New Mac Scanner

[10:55AM] Epson has announced a new scanner for the Mac, the Perfection 636. The new scanner sports a SCSI connection and the company claims it is the fastest scanner in its class. Seeking to reach people after the Holy Grail of scanning, the company has included a technology called Text Enhancement Technology (TET) which will reportedly increase OCR reliability. The scanner is scheduled for release in October of this year.

Epson

Network Associates End Confusion Over Virex

19:50AM1 Network Associates, the owners of Virex since they acquired Dr. Solomons in June of 1998, has announced its ongoing plans for development of the what many consider to be the top anti-virus software for the Mac.

The Webintosh Spin: Network Associates has been under some criticism during the days since the acquisition of Dr. Solomon's and this announcement is encouraging, but it leaves some questions unanswered.

Read The Full Webintosh Story

Symantec Releases Norton Utilities 4.0

19:30/MI Symantec has finally released a version of its award winning maintenance utility for the Mac, Norton Utilities for Macintosh, that is compatible with Apple's HFS+ file system. The new Norton Utilities for Macintosh is PowerPC native (for the first time), and sports a nice new interface. It also brings along some new capabilities which, combined with the speed increases inherent from the PowerPC native code and the support for HFS+, make for a much needed upgrade. Pricing is listed at \$99.95 and \$49.95 for upgrades.

Symantec

See September archive for recent news...

Reviews | First Looks | Features | Awards | Webintosh
Perspectives | Contact Information | Advertsing Information |
Webintosh Archives

All information presented on this site is copyrighted by Webintosh except where otherwise noted. No portion of this site may be copied without express written consent. Other sites are invited to link to any aspect of this site provided that all content is presented in its original form and is not placed within another frame.

AS OF SEPT. 17. SEE PAGE 25 FOR

Slowest #

A Look at a New Season of Net Innovations

Fall is the season of innovations. There it's a challenge to just ride the waves of are so many new products and initiatives, announcements. Here's my take on some of the more interesting developments.

means choosing among categories such as Advertising by request. Blockbuster Entertainment has started sending e-mail newsletters to tell customers about new video and game rentals. The chain is using a of using e-mail lists combining topical news with targeted promotions. When an individual registers for a list, he or she indicates personal preferences; for Blockbuster, that service from MinderSoft Inc., of Herndon, Va., which has been marketing the concept action films or Nintendo64 games.

ing: When consumers register, MinderSoft I would expect these e-mail lists to be a nent that's questionable but worth watchoffers the option of receiving updates via esuccess; however, there's another compo-

short films such as videos and TV sitcoms.

Gus Venditto is editor-in-chief of Internet.com, Mecklermedia's Web service.

software downloaded to the user's hard disk.

If the user chooses the download, MinderSoft will

Net connection. While he's online, MinderSoft may send a trailer for Bruce Willis' next disaster extravaganza. The software downloads in the background, so there's the potential to startle a user with a crash-andburn commercial while he's toiling away monitor the consumer's

Soft spokesperson said the current plan is to transmit only trailers and other marketing bulletins, this looks like a trial balloon for a paid content-delivery service. It To help push the proprietary software onto hard disks, Blockbuster will offer CD-ROMs at its stores. While a Mindercould lead to a new channel for selling on a spreadsheet.

That doesn't

eight months.

hear that complaint as much, it's probably because most ISPs have gotten better at providing a connection when users place a call. mail reminder service for Toys R Us—called Growth/Minder—that shows that not every The toy store will keep a record of a child's market can benefit from the technology: MinderSoft will soon launch a similar e-

growth and send helpful reminders on the children need any help in reminding parents proper toys to buy. It's not clear to me that about their need for new toys.

low: On average, only 4 percent of all dialup attempts fail. A year ago, the rate was double that, with 8 percent of all dial-up Don't tread on my network. Bell-

> search engine. We used to be impressed Why you can't find anything on a hat there were a

gal battle of 1999. The re-

turn out to be the big Net le-

South has taken a first step in what may

attempts failing during business hours.

gional carrier sent a letter to

asking for a penny per call

Net telephony providers,

on every voice call passing

through its nine-state net-

work. Bell companies have long complained that Net

ew million pages cording to Alexa with the Web douon the Web. Ac-Internet, 1.5 milion pages are created every day,

oling in size every

Venditto

mean everybody with a Web page is becoming a star. Alexa estimates that half of all traffic goes to the top 900 Web sites.

telephony gets a free ride, since it can route calls over any distance for the price of a local call.

and external affairs. Cindy Schonhaut, told Wired News: "BellSouth is wrong legally." AT&T spokeswoman Janet Stone said. "It is unclear under what authority Bell-South is taking this action." Net telephony provider ICG was more blunt. The conpany's senior vice president of government And so the Internet launches yet an-

> ft wasn't long ago home users complained of having difficulty getting online. If you don't

Some things do get better with age.

other fertile field for lawyers. earch: COMMERCE, REGULATION

that call-failure rates are at an all-time

Inverse Network Technology found





Internet Goes Crazy, Slows Slightly For Starr Report

As dawn broke across the American capital last Friday, everyone knew it was going to be a big day, but the Internet release of the Independent Counsel's report on President Clinton meant it was going to be an equally big day in offices across the nation.

For the first time, Internet technology was allowing everyone, from regional and small-town newspapers to search engines and Internet service providers, to compete directly with the likes of CNN and give users their first look at the report

Preparations for the release began on Thursday, when it became clear the report was likely to be posted online Friday. Primary distribution point for the report would be the Library of Congress homepage (www.loc.gov), and DRANet. the service provider that connects the site, was busy provisioning additional bandwidth, adding extra Web servers and

: 415 896 1094 PHONE NO. repure wypur wie

working on traffic manuagement plans As the day continued, anneipanon of

the demand for the report increased Two additional tederal Web sites, the House of Representatives

(www.house.gov) and the Government Printing Office (www.gpo_gov), were also preparing to host the report, and several private organizations were also making plans. C.N. for example, was telling its viewers to check its own Web site (cnn.com) for the report.

On Friday, with some preparations still underway, everyone awaited the vote that would release the report onto the Internet. No one was really sure what to expect. Would the report have to be typed into electronic form? Would it be scanned into multiple graphics files? In the end, it was much easier. Kenneth Starr had thoughtfully supplied the entire report on CD-ROM and all that had to be done was a conversion to HTML

One complete time 455-page report

Oct. 14 1998 03:13PM P2

All of the major media outlets scrainbled to download the report and get a mirror up and running so Web surfers would not have to leave their sites to view the report somewhere else. Among them were (N the Ivashington Post, the Los Angeles Times, Clucago Inbune, ABC News, the New York Times and MSNBC

Determined not to lose out on the massive interest, local and portal sites, including Yahoo Excite, Netscape's Netcenter, Northern Light, HotBot, Cox Interactive and Lycos, also launched murored versions of the report. Most of the non-news sites dressed up their mirronne as a public service. Netscape, for example, said it was, "assisting the government in distributing the Starr report from Netcenter.

How did the internet fare in the wake of this?

An early report from Keynote Systems said the release produced minimal impact on Internet performance. The company continually measured response time of popular Web sites and networks to come up with its measurements.

Overall, performance on 40 major business Web sites between 1 p.m. and 2

1589

.5399



Martor 13.5 CR UDMA.....

...5345

3 year complete system warranty

E-Mail: sales@dhecs.com

WWW.DHECS.COM

5318

Mag DJ800 19" .26dp

ViewSonic G771 17" .27dp

Mitsumi 37x EIDF 569

Mitsumi 8x2 CDR \$289

HP 7200i 8x2 CDRW\$389

Toshiba 32x EIDE \$75

Ploneer 32x SC\$1\$99

Prices subject to change

Creative Labs SB AWE 128 (Live)......\$138

Creative Labs Ensonig PCI 32 Voice...\$48

Turtle Beach Montego A3D PCI 64....598

p.m., was 6.55 seconds against 8.07 seconds on Thursday. Part of this degradation, the company moted, could have been attributed to a major fiber cut early Friday between Eurfax, Va., and Atlanta. Ga

The picture was not so bright on Starr-related sites, but was not disastrous. Keynote said that during the same one-hour period, access-failute rates of Starr-related Web sites were unusually high. Thirty-two percent of attempts to access the CNN Web site and 53 percent of attempts to access the MSNBC Web site failed.

At the House of Representatives Web site, access failures but a massive 89 percent.

Confirmation of the small effect on traffic was confirmed by WorldCom, which operates the major MAE-East Internet exchange point. It said it observed a small blip in traffic, of around 100 negabits per second, at 2 p.m., but otherwise saw only slightly higher traffic than normal.

Alexa Internet provided more statistics, based on its 200,000 user-base. It said 15 percent of users viewed Starr's findings. It also estimated 38 percent of all government-related Web traffic was related to the Starr-report.

Despite the full text being available

from countless sources on the Internet, several publishers have already announced plans to rush print copies of the report to bookstores next week.

- Martin Williams Newsbytes

Semiconductor Sales Down 17 Percent

A "warmer" PC sales climate reported last week by International Data Corp. (IDC) has not translated yet to better chip sales. According to Semiconductor Industry Association's (SIA) "Global Sales Report," world chip sales dropped 1.9 percent from June to July and were down 17 percent collectively from Juiv 1997.

The industry trade group, which tracks semiconductor markets on a month-to-month basis, put the value of July's semi-conductor market at 99.667 billion, compared to \$11.649 billion a year earlier.

The group said continued economic turnoil in Japan and pressures in product pricing were largely responsible for the depressed market.

However, the group also held out hope for struggling chipmakers as the market shows signs of coming into balance, the group said.

"A positive sign in the marketplace is that personal computer sales continue to grow," said George Scalise, president of the

Also the worldwide figures were skewed by short-term events in Japan, the group said. The July sales figures reflect a 30.2 percent drop in Japan's market compared to a year ago, from \$2.94 billion in July 1997 to \$2.05 billion in July of this year. But two-thirds of that decline tracks directly to the depreciation of Japanese currency.

Still, the 17 percent global decline was real and was reflected to varying degrees in every major market area. The Americas market fell from \$3.85 billion to \$3.20 billion, Europe dropped from \$2.31 billion to \$2.22 billion and Asia-Pacific slipped from \$2.54 to \$2.1 billion.

The Global Sales Report is assembled by the World Semiconductor Trade Statistics (WSTS), an organization that represents 70 companies. A complete list of SIA publications is available on the SIA Web site at www.semichips.org

— Craig Mencfee, Newsbytes

MasterCard Demos Multi-Application Smart Card

MasterCard has been highlighting the

continued on page 8

Hands-On PC Configuration, Networking and Troubleshooting Courses

Course #401: — 4-days—\$995—Maximum 16 attendees per workshop

Denver - Nov. 3-6, 1998 Colorado Springs: Jan. 19-22, 1999

Here's what you can expect to learn:

- You will gain a thorough understanding of PC components and how they work together
- You will learn a structured and systematic approach to upgrading, configuration, and troubleshooting that you can apply both over the telephone and face to face.
- You will be able to differentiate hardware problems from software problems quickly and accurately.
- You will be able to increase the speed and the long term stability of the systems you work on.
- You will know both WHAT to do when things don't work, and WHY you do it!
- You will be able to evaluate new technologies, and identify the products and services that will truly impact the way you work.

In-Class Hands-On Workshops

- Completely disassemble and reassemble a Pentium PC
- CMOS configuration: What the options really mean!
- Separate hardware problems from software problems.
- Use beep codes and diagnostics cards to identify problems.
- Troubleshoot DOS' Windows 95 & 98's boot up sequence.
- In depth memory management, covering all available options.
- Install Windows 95 or 98 or Windows NT Workstation 4.0 from scratch. (You choose which one.)
- · Optimize Windows and install custom drivers
- · Set up an Ethernet network
- Configure add-in cards including tools for tracking and managing IRQ, DMA, I/O port and address usage.
- Hard disk management for efficient partition and formatting.
- Recover lost, deleted and damaged files off crashed hard or floppy disks. Virus infection, detection, removal demo.



This workshop will help you to prepare for the A+ Certification Tests Techs ream: Inc.

(719)471-3836

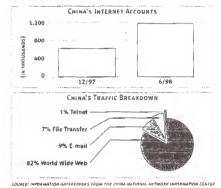
Techstream Inc. is certified as an Approved School by the Division of Private Occupational Schools in the State of Colorado

METRICS

China's Net Population Doubles

The Weight of Web Culture

ncreased competition between ISPs has led to lower prices. This has caused the number of internet accounts in China to double during the first half of this year, with most traffic headed for the World Wide Web.



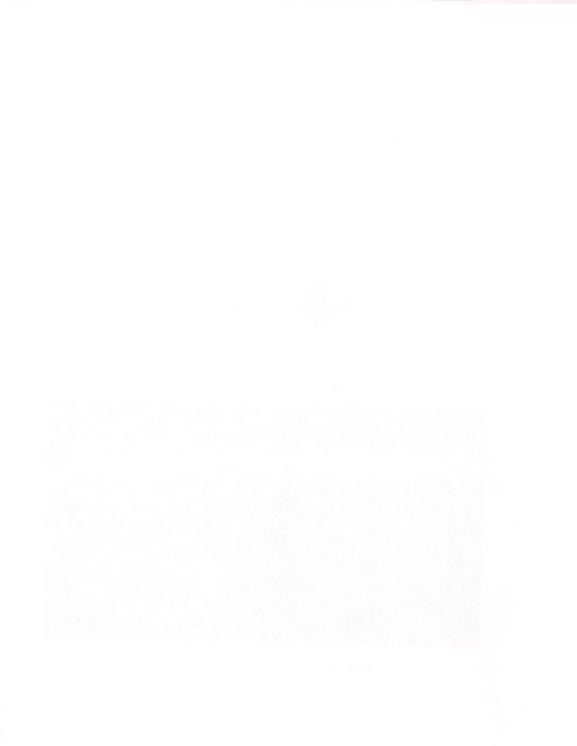
An article by Peter Cyman and Brewster Kanle, both directors of the Internet Archive, analyzes the relative digital heft of the World Wide Web when compared to other cultural artifacts.

TYPE	Example	DIGITAL SIZE
Composer's Work	Mozarr	Approximately 100M8
Newspaper	Wall Street Journal	100MB/year (text)
Card Catalog	Library of Congress	17GB
Radio	WABC	270GB/yr uncompressed
Camputer Discussion	Netnews	300GB/year
Branch Library	Palo Alto, Calif.	s 4TB of scanned version of books
Internet Publishing	World Wide Web	4TB in 1997
Television	CNN News	(compressed)
Video Rental Store	Blockbuster Video	918
Research Library	Library of Congress	20TB text in all books

SOURCE "ARCHIVING DIGITAL CULTURAL ARTIFACTS: ORGANIZING AN AGENDA FOR ACTION," RETER LYMAN, PROFESSOR AT THE UNIVERSITY OF CALIFORNIA AT BERKELEY, AND BREWSTER KAMLE, WESSIDENT OF ALEAN INTERNET.

Behind the Numbers: Internet Population Estimates

IS. INTERNET POPULATION	RESEARCH PIRM	AGE	Accessed in _	PROPRIETARO* OWLINE SHOWERS?	FRANK SIZE	STUDD (1) Diagram
		- 12 - 1				
	en e					
17	ų.	2000				
) - 1 				





Preview: Alexa

September 28, 1998 by <u>John Engler</u>

Alexa

Pros: go where you want with greater ease Cons: a little slow at times

Where do you want to go today?

Excuse me for the stolen advertisement, but if Microsoft really wanted to live up to this question they'd have bought Alexa by now and it would be part of their "active desktop".

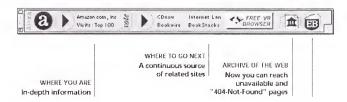
Alexa is a relatively new piece of freeware for the Macintosh. In fact it hasn't been officially announced yet (as of this writing). I just happened to see an advertisement for the PC version and thought I'd check it out.

So what is it?

In the ever growing vastness of the internet there are search engines; uneducated, idiotic spiders that search the internet trying to help you find your way. When is the last time a search engine really helped someone find exactly what they were looking for without consuming too much of their time?

This is where Alexa comes in, as nifty little toolbar that helps you browse the internet better. This utility works by checking the information contained in the web page you are viewing and its server's database about that web site, and provides you information about that site and possible links to other sites like the one your looking at.

"When you walk on a path through the woods, you are benefiting from the explorations of the people before you--finding the best way up the mountain or down to the lake. Alexa tries to do the same thing for the Web."



Where are you?

When the program is providing information about the site you are looking at it can provide the a lot of objective and detailed data. It will tell you who the site is registered to, how popular that site is, how many other sites link to that site and some third party affiliations with publishers and privacy advocates such as Yahoo! Internet Life, RSACi, TRUSTe and VeriSign.



Where to go next?

In the related links part of the toolbar you can find a small list of links that are based on the usage patterns provided by all Alexa users.



404 Errors, No more! (maybe)

Alexa is also working constantly to archive the entire internet to try and alleviate the constant problem of 404 Errors - when pages no longer exist where they once did. Alexa can serve the most recently archived version of a 404 Error if they've archived it. If they didn't catch it before it disappeared then it might just be a bad link, or it wasn't up long

2 of 5

In today's world it's hard for Mac users to find really good freeware. Alexa has been running on my iMac for the past weeks and has yet to crash on me, despite being in its developmental infancy. The reason Alexa can afford to be freeware is that it uses advertisers to defray its costs. When you use Alexa you'll see ads on its toolbar and in the pop-up windows that give you information. This is a fundamental shift in the way advertising on the web occurs.

"Presently, advertisers can choose only from approximately 900 sites that sell ad space (Source: Cyber Atlas/Jupiter's Ad Locator). Alexa, however, offers access to users of the entire Web, estimated by Business Week to be 40 million people. Moreover, Alexa provides context-sensitive advertising allowing advertisers to launch advertising campaigns that target clusters of Web sites, specific geographic regions, and/or time of day. This method delivers advertisements relevant to a user's interests and to the site being viewed." At least the ads should become relevant to Mac users as this service expands.

Help others find their way around!

Perhaps one of the coolest features it the ability to vote on whether or not you like a particular site. When visiting a site that you can vote for it. this paves the way for following users to get led in the direction of that site (if enough people vote for it) or be turned away from it (if the opposite happens).



Should you download it?

Alexa is still in the alpha version for Macintosh so usually I would suggest waiting for the final release. But I know that Mac users by habit are always downloading the latest version of anything, regardless of what has been added or fixed. But you should know that Alexa has a strategic partnership with Netscape, so they've built the features into Netscape Communicator 4.5 and 4.06. It's what runs the What's Related button on your toolbar, you provide please?

If you're using Netscape 4.05 or even back to 3.x, or Internet Explorer 3.x or later then Alexa should work for you too. I'm using it with MSIE 4.01 (310) on an iMac with System 8.1 and it works great. Alexa even comes in a 68K version so who knows what the limits are.

enough.

"As of July, 1998, Alexa's Web archive is in excess of 12 terabytes and we take a new snapshot approximately every 60 days (a terabyte is a million megabytes). Alexa began collecting the Web in early 1996 and we now have at least 5 snapshots of over 1,000,000 Web sites. We are beginning to adjust our visits of sites to reflect which sites change most frequently. We make it easy for Web site administrators to request that their site be archived at a particular time or not archived at all, whatever their preference."



Desktop Reference System

Alexa also provides a really neat way of getting at reference material. They've teamed up with Encyclopaedia Britannica, the Merriam-Webster Online Dictionary and Thesaurus, Britannica Online and eBLAST by Encyclopaedia Britannica, the new searchable directory of over 125,000 sites reviewed for their usefulness. If you are a student of anything this means you don't have to buy another heavy encyclopedia volume and you might save yourself a trek to the voluminous library.



Alexa is Freeware?

3 of 5 9/29/98 9:48 AM

Summary

Alexa is going to be a hot piece of software. If you don't download it now, keep your eye on it. It promises to revolutionise the web. The sooner more people start using it, the more accepted it'll be. The more Mae users that use it, the more Mae links it'll provide. Think Different, anyone?

© 1998 The MacNN Review 1502



5 of 5 9/29/98 9:48 AM



PHONE NO. : 415 896 1094

Oct. 16 1998 08:13AM P4

Greenwich Times 9/26 Stanford Advocate 9/28 From LA Times)

By Ashley Dunn Los Angeles Times

In the cosmic scheme of things, the human concept of forever is just a blink. Love is not forever Beauty is not forever. Not even Microsoft is forever.

But in the past few decades, the human concept of forever has undergone a revolutionary transformation with the rise of digital information. Digital data truly are forever. The information can be forgotten, destroyed or misplaced - and usually is But with the proper will, it can also be eternal - an unchanging stream of ones and zeros that can stare at the breadth of human existence and not blink.

The movement to archive digital information is well under way with such undertakings as Project Gutenberg (www.gutenberg.nct). which has converted nearly 1,000 books and historical documents into digital form. These so-called etexts in the collection range from "A Child's Garden of Verses" to "Zincali, Gypsies of Spain."

Brewster Kahle, inventor of the wide-area information servers, or WAIS, system, has been working on a project called the Internet Archive (www.archive.net), which has been storing every bit of the Web it can find for historians. He has already assembled about 4 ter-

abytes of information --- that's 4 trillion bytes - including a collection of Web sites on the 1996 elections (www.archive.org/smithsonian.html).

There are archives on the Internet for just about everything from digitized photographs to historical software to MIDI music files.

The power of perfect digital reproduction has begun to shift the very concept of what is history, pressing it beyond the veneer of great documents, ruins and archaeological finds into the realm of common life.

David Blatner, an author who Is specializing in books on computer graphics, launched a project last year that is called AfterLife www.afterlife.org) to archive the home pages of deceased Web surfers. The project got started after a friend named Iry Thomas (weber.u.washington.edu/~irvthom (Realhome.html) expressed coucerns about the fate of his Web site after he dicd.

Thomas, a 71-year-old Seattle resident, had been a programmer for 30 years but ahandoned that work to write and philosophize about life. He published a book about his European travels on his site and archived an intermittent journal of personal musings, called Ripening Scasons." Like man

Turn to LIVE FOREVER, Page 1



others on the Web, he had come to see his site not as just a collection of random links and pet pictures but an expression of his life and expenences. It was as much an art work as Leonardo da Vinci's Mona Lisa or Henry David Thoreau's "Walden."

What Thomas had confronted was the other edge of the digital sword: While digital information can be preserved forever, it also can be frighteningly easy to destroy A single misguided keystroke or a missed Internet service payment, and a few megabytes could be lost forever.

Blatner saw AfterLife as a relatively inexpensive way of extending archival care to the creations of the common man.

After more than a year of sporadic volunteer work, AfterLife is still more a concept than a reality. Archiving forever is much easier said than done, requiring a steady flow of funds, which Blatner does not have, and a commitment that will far exceed his life span

Blatner added that he is also unsure of what should be archived and what should be left to fade into the virtual ether. Should pornography be archived? Should hyperlinks be maintained? Should there be size-restrictions? Should obituary-style memorials be allowed? Will HTML have any meaning in the future?

Whatever the answers, the basic idea of using the virtual world to capture pieces of our real-world lives has an undeniable appeal.

There are at least 25 sites now on the Internet that allow users to post virtual memorials on the Web. Most of the sites are connected to funeral homes or cemeteries.

It seems unlikely that many of

these virtual memorials will get within even a few eons of forever But Sharon Mnich, a Georgia Web designer who started the first virtual memorial (www.virtualmemorials com/) in 1996 as a way to commemorate her grandparcnts, said the meaning of these sites is really not about eternity, but ahout the living and the here and now.

"The virtual memorials offer a way to celebrate the dash between two numbers on a tombstone;" said Mnich, whose free site now lists more than 1,000 people "That's all there was room for before I can see these memorials becoming a standard pact of life in the future. It can change a morbid part of life into a celebration instead."

FREE UPDATES

Submit

Enter your email address to receive free breaking news updates

CPM advertising is hit or miss.



ADWEEK ON LINE

INTERACTIVE NEWS

Week of September 28, 1998

HOME

TODAY'S HEADLINES

SEARCH ARCHIVES

FEATURE STORIES

CREATIVE COVERAGE

CULTURE TRENDS

CLASSIFIEDS

New! Search the industry's largest employment marketplace

Join a discussion

ABOUT ADWEEK

SUBSCRIPTIONS

DIRECTORIES

ADWEEK CONFERENCES

INDUSTRY EVENTS

EDIT CALENDAR

FAQS

RATE CARD

CONTACT ADWEEK

IQ News

Insurance Firm Eyes Toolbar

Week of September Ads 28, 1998

EURO RSCG Worldwide Commits to Online Future

Digital Pulp, Genesis Direct Team on Web Sports Catalog

General Mills, MaMaMedia Go Online, On Boxes to Reach Kids

Insurance Firm Eyes
Toolbar Ads

Insider: New Third Ager

Wanted: Web Prodigy. Cheap!

Weekly Sections

@ Deadline Bits IQ Movers BY Susan Kuchinskas

Illustrating again that every chunk of Web real estate is potential ad space, InsWeb, San Mateo, Calif., has signed with San Francisco-based Alexa Internet to advertise on the "What's Related" feature of the Netscape 4.5 browser and on the user's toolbar. For the campaign, which began over the weekend, Alexa will serve InsWeb ads within its toolbar when users visit an automobile or auto insurance-oriented site. As part of the deal, InsWeb is guaranteed a link as one of the top two choices listed in the toolbar when users click on Netscape's What's Related button.

Alexa is a free, downloadable tool providing ancillary information about Web sites via proprietary software. Alexa also serves ads within a box on its tool bar. Site information provided in the toolbar includes to whom the site is registered, how many visits it's received and a What's Related feature specifying the top 10 sites users visit afterwards. At the top of that list are two paid placements from advertisers that are separated from the remaining eight listings by a tasteful gray line. Both the tool bar ads and What's Related links can be targeted to Web users.

In an agreement signed last June with Netscape, Mountain View, Calif., Alexa Internet--a company founded by technology pioneer Brewster Kahle--provides the software for a similar "What's Related" feature, which is integrated directly into the 4.5 browser.

Terms of the InsWeb deal were not disclosed. An

Alexa Internet spokesperson said that at peak times Alexa was serving as many as 34 ad impressions per second. The campaign will run at least through year's end. Other What's Related advertisers include CBS MarketWatch, HouseNet and First Auction.

Next News Item IQ News Main Page







© 1998 ASM Communications and <u>BPI Communications Inc.</u> All rights reserved. BPI Electronic Media includes <u>Billboard</u>, <u>Brandweek</u>, <u>BPIQ</u>, <u>Amusement Business</u>, <u>Back Stage</u>, <u>The Hollywood Reporter</u>, <u>Marketing Computers</u>, <u>Mediaweek</u>, and <u>Musician</u>. Sites hosted by <u>Telescan Inc.</u>

9/28/98 11:52 AM



your personal trading community™



MIREDNEWS

updated 8:54 a.m. 20.Oct.98.PDT

Wired News

V

SEARCH

SECTIONS Top Stories

Business

Culture Technology

Politics

General News FREE DELIVERY

enter email

NEWS OVERVIEW

Today

The Past 7 Days

STOCKS

Quotes (enter ticker):

GO

Stocks

Graphing

Quotes

Indexes

Most Active **Portfolios**

Wired Index





HOTBOT @ Financial Center

WIRED MAGAZINE



New Netscape Ships Wired News Report

1:40 p.m. 19.Oct.98.PDT

In a move designed to bolster its sagging Internet browser market share and drive visitors to its Netcenter Web index site. Netscape Monday released Communicator 4.5, the latest version of its browser software.

"We have integrated Communicator 4.5 with Netcenter to help Internet users find information more easily," said Dave Bottoms, Netscape product manager.

As anticipated, the program incorporates the company's much-vaunted Smart Browsing option, which opens Web sites based on simple keywords that users enter in the URL field.

"For example, a user can type in the words 'Mark McGwire' into the navigation bar and [be] automatically routed to baseball sites," said Bottoms.

Aside from Smart Browsing, the new Communicator includes Roaming Access, a feature that allows users to store their bookmarks, address books, and other preferences on Netcenter for access from any browser -- though Navigator works best -- on any PC.

Another new related option, Internet Keywords, uses a database housed at Netscape to point users directly to content related to the keywords. For example, a user typing 'Kenneth Starr' would be led straight to the Starr Report.

The new Communicator also provides a pull-down menu of related sites -dubbed "What's Related" -- which are culled from the 12 million sites tracked by the Alexa Internet service. Another

Printing? Use this version.

TECHNOLOGY Today's Headlines

Dressing Smart: Wearable PCs

'Private Doorbell' Rings Hollow

Lucent Stretches Fiber Pipes

New Netscape Ships

Back, Back! Dreaded Hoe

Padlocking Windows 95

AOL: 'You've Got Weak Security!'

Crackers Snag Credit-Card Info

Chicago's High-Tech Hope

Intel Juices Memory Bank

UPS Links Supply Chain

Animation Tutorial: Lesson 3

Animation Tutorial: Lesson 2

Animation Tutorial: Introduction

Subscribe to Wired!

HOTWIRED

Front Door Webmonkey Web 101 RGB Gallery Suck.com

нотвот

<u>Search</u> Shopping

Wired News staff

Wired News is hiring

Contact us

Wired News delivered by <u>Outlook Express</u>, <u>In-Box Direct</u>, or <u>PointCast</u> feature called "Net Watch" will allow parents to mark certain sites off limits to their children.

Netscape will also bundle <u>RealNetworks'</u> RealPlayer 5.0 Net audio and video as well as Headspace's Beatnik high fidelity audio technology, developed by Thomas Dolby.

Sources close to the company said that in recent months, Netscape has moved many of its former Communicator product managers to work on the company's Netcenter site.

In a recent survey by International Data Corporation, Netscape has <u>lost the upper hand</u> in the browser battle to Microsoft's Internet Explorer. In the first half of 1998, the study showed that US market share for Netscape's browser slipped nine points to 41.5 percent from its 1997 year-end share of 50.5 percent.

Related Wired Links:

Netscape Gets Real

19.Oct.98

SmartBrowser to Smooth Downloads

8.Oct.98

Netscape Cedes Browser Lead

28.Sep.98

Communicator Sharpens Tools

17.Jun.98

Netscape Posts Browser Preview

16.Jul.98

Netscape's 'Smart' Browser

1.Jun.98



<u>Send us feedback</u> | <u>Work at Wired Digital</u> | <u>Advertise with us</u> <u>About Wired Digital</u> | <u>Our Privacy Policy</u>

 $\underline{\text{Copyright}}$ © 1994-98 Wired Digital Inc. All rights reserved.

CNET | Special Reports | Gadgets | News | Hardware | Games | Web Building | Downloads | Shopping | TV



Special Reports



WEB WHITE and BLUE -- Your '98 Election Resource

Wedscape Communicator 4.5

back to intro

The best thing about Navigator 4.5 is its new array of search tools, which help you move more intelligently through the morass of Web content.

More from the CNET network

CNET News.com:

Netscape announces
 TuneUp for IE

CNET.com:

- Battle of the sumo browsers: Communicator 4.x vs. IE 4.x
- The top email clients compared

More from the Web

- Communicator 4.5
 release notes
 from Netscape
- Alexa navigation tool info from Alexa Internet

Browsing

Performance

For Communicator 4.5, Netscape focused its efforts on stability and ease of use. The new Communicator is at least as stable as its predecessor, and its "Smart Browsing" features, explained below, make navigation simpler. On such a short production schedule, though, something had to give, and Netscape chose performance.

Not that 4.5 is a laggard, by any means. In our HTML- and GIF-loading tests, Communicator 4.5 outperformed 4.07 by a few percentage points—it's not a huge improvement, but at least you'll know 4.5 isn't a step backward. JavaScript performs more smoothly, and Java applets will load and initialize faster, too (though once they load, 4.5 will run them about as fast as its 4.0x ancestors). These additions are nice touches, but they're probably not reason enough to convert from a fast non-Netscape browser. Most of Netscape's performance enhancements are aimed at the Communicator 5.0 project, and the company says we should see significant improvements when it finally ships.

"Smart Browsing"

One thing no one can debate is 4.5's truly innovative browsing experience--what Netscape calls Smart Browsing. Communicator's new interface helps you navigate the morass of Web content with a minimum of fuss. The new Internet Keywords feature, for instance, lets you type a product name, trademark, or other keyword into the location field; the browser then searches its keyword database for an appropriate site. For example, if you type Ford Mustang into the Location field, 4.5 takes you to the Ford Motor Company Web site. If a keyword can't be found in Netscape's database, the request passes to Netcenter's Excite search. Overall, we like the feature, but it has a few wrinkles. Since Internet Keywords bounces requests for words such as *scripting* to a Web search rather than the more standard *www.scripting.com*, many small Internet sites that have invested in certain domain names justifiably complain that Netscape is hurting their traffic. Netscape thoughtfully provides an option to disable the feature if it's not your speed.

The other half of Smart Browsing is somewhat less controversial. To view sites similar to the one you're viewing, just click the new What's Related

button, and you get a drop-down menu of related links ranging from related-product reviews to competing Web sites. The links are pulled from a customized Alexa database, so the results are similar to those you'd find with Alexa's IE plug-in. In an interesting move, Netscape recently announced TuneUp for IE, an add-on that brings the entire Smart Browsing system to Internet Explorer users.



A click of the What's Related button on the Ford Web site produces a list of competitors—great for smart shoppers and researchers.

Content filtering

Parents and managers can block access to objectionable Web content with Nav 4.5's NetWatch, which supports PICS-based content filtering. (IE has offered content filtering since version 3.0, so it's long overdue from Netscape.)

Slicker setup and interface. Cool!



Where to shop

Advertiser links

- · Bid on memory, software, and more at Egghead Surplus Auction
- . Top Selling Software at BuyDirect.com
- . Take advantage of great deals on computer products at Surplus Direct
- . Buy "Netscape Communicator for Dummies" at Borders.com



WEB WHITE and BLUE -- Your '98 Election Resource

subscribe | how to advertise | help | corrections page

about CNE I



CNET services: CNET.com | News.com | Computers.com | Builder.com | Gamecenter.com |

Download.com | Shareware.com | Browsers.com | Shopper.com | Search.com | Career Center | Snap! | Free email

CNET | Special Reports | Gadgets | News | Hardware | Games | Web Building | Downloads | Shopping | TV

Copyright @1995-1998 CNET, Inc. All rights reserved. Privacy policy.



October 21, 1998

NEWS WATCH

Merry-Go-Round View of Baseball Stadiums

By MATT RICHTEL EDG

hen the final out is called, when the TV crews have packed up, when the last baseball die-hard has been pulled from the bleachers by the authorities, Yankee Stadium will take on the serene quiet of its natural state. And that is the way visitors will find it at the Web site of Be Here Inc., a



Silicon Valley technology company that makes technology to display 360-degree images on the Internet.

The site features 360-degree images of both Yankee Stadium, in the Bronx, and Qualcomm Park, the stadium the San Diego Padres call home. The images, taken from various points inside the stadiums, pan through an arc of 360 degrees.

Library of Congress Meets World Wide Web

A recent donation to the <u>Library of Congress</u> is an example of life imitating the Web.

The library, the world's most voluminous, was a recipient last week of a massive database containing the entire contents of the World Wide Web from the first two months of 1997. The 44 computer disks, containing two terabytes of data, include hundreds of thousands of Web sites -- the good, the bad, and the smutty stuff Congress does not want children to see.

The donation was the library's first archive of the new medium, but what was notable about the donation was not just the content, but the format: the disks that contain the Web sites are part of an interactive sculpture.

The sculpture features the disks -- 44 in all, each with 40 gigabytes of information -- alongside four brilliant red computer monitors that intermittently display brief images of the 500,000 Web sites.

Library visitors will have to settle for seeing the sculpture, not the entire contents

of the database, at least for now.

"It's kind of a laboratory experiment for us," said Guy Lamolinara, a spokesman for the Library of Congress. Lamolinara said that some of the material was not suitable for the collection and that the library was working out copyright issues.

"We will be using it to explore how to preserve digital materials and how to provide access to these materials," he said.

The collection was gathered, stored and donated by <u>Alexa Internet</u> of San Francisco. The company has developed a toolbar that makes it easy to view Web site background information, like where a Web site is, whether it has a privacy policy or if it has won third-party endorsements. The company's president, Brewster Kahle, said the donation preserved a moment in the life of the ever-evolving Web and could become a resource for sociologists and, eventually, historians who wanted to study our era.

Videophone Call-Ins on a Cable TV Channel



he Internet has made it possible to perform all sorts of tasks without leaving the house -- banking, working, even dating. Credit <u>ZDTV</u>, a fledgling 24-hour cable channel with programming focused on computer issues, for using the Net to make a virtual community out of yet another group: the studio audience. The network, based in San Francisco, urges viewers to call in to its programs using Internet-based videophones, which transmit not just voices, but faces.

"Larry King says, 'We'll go to Altoona, Pa., for our next call,' and you'll hear the caller," said Greg Derbin, senior vice president for Programming and Production at the network. "With ZDTV, you'll see the caller."

To encourage wider participation, ZDTV will give away up to 10,000 videophones, called Netcams because they transmit their audio and video signals over the Internet. From Oct. 26 to 31, it plans to give away one videophone every hour on its Web site, Drebin said. ZDTV, which is owned by Ziff-Davis and began broadcasting in May, reaches eight million homes.

Survey Will Track Internet Audiences

he question is not whether people are tuning in to radio programs over the Internet -- they are, albeit not in mass numbers. The question is whether the listeners count.

Toward that end, <u>The Arbitron Company</u>, which measures traditional radio audiences in local markets, last week announced plans to modify its surveys to track which of the station's listeners tune in over the Internet. The new plan is a joint effort between Arbitron NewMedia and <u>RadioWave.com Inc.</u>, the interactive

radio subsidiary of Motorola.

There are 1,708 radio stations worldwide with streaming audio, up from 763 a year ago, said <u>BRS Media</u>, an Internet radio consulting agency. But thousands of others -- among them, the CBS Corporation owns about 160 radio stations and has a policy against streaming audio -- have abstained, in part because they want to be able to measure audiences accurately.

Volunteers Answer Questions Via Internet

he copious information available on the Net is all well and good, as far as Steve Gordon, a New York lawyer is concerned, except that Gordon figures that people spend hours trying to find the one bit of expertise they are looking for. So he decided to put the experts in one place.

Gordon recently launched <u>Allexperts</u>, a Web site that allows visitors to question 2,000 e-mail volunteers on topics like entertainment, computers, and medicine and get a free reply.

Some of the volunteers are not exactly experts -- the television and music volunteers are entertainment fanatics whom Gordon discovered in chat rooms, news groups and on Web sites -- but in the case of the medical sites, most volunteers are doctors or academics, Gordon said.

Gordon says the site did not vouch for the replies, which he says are meant to serve as general information, not specific advice or diagnoses.

New Ink-Jet Printer Has a Darkroom Inside

one clear trend in electronics is to package ever more functions in a single device, turning a cellular phone, for example, into a beeper, e-mail receiver, message center, bottle opener -- and, by the way, a telephone.

In keeping with this trend, <u>Lexmark International Inc.</u> of Lexington, Ky., is scheduled next week to ship a new ink-jet printer that is also a digital darkroom. The Lexmark Photo Jetprinter 5770 is designed to print digital pictures without a personal computer.

The Photo Jetprinter has a slot into which users can insert a digital film cartridge. This means users no longer have to upload the pictures onto a PC, format them and send them to a printer, said Patrick King, Lexmark's general manager for Digital Photo Printer.

The printer is expected to sell for \$349, and individual pictures will cost around 60 cents, taking into account the cost of ink and paper, King said. He said that compared with a cost of 40 to 70 cents per print for pictures developed at a conventional lab.

"It's on the upper end," King said. "But the difference is, with our printer, you're only paying for the ones you want."

Depart AR HIVES Trail of

Electronic Privary Information Center in S. Washington. It is saddenly becoming inborn will be able to reconstruct a record of possable to escape your past that there time pages disappear once they published in the following day you at 'disappear once they published in the following day you at 'disappear once and and a strength of the following day you at 'disappear on the following day from pages free an include of the following day and remained from 1988, of the following day from a following the following day for the following day from the following day for the fol um with the new medium. People secured ng everything it comes across—text, mise. es, sound thus Every two mantle, it scoops, up the entire Web and stores the results on its virtual studies. It has preserved my ex-

also the best-forgotten postings to alt.sex.fish or rec. nude. The Web strine you your digital life—not just the good stuff but once erected to an old flame, with its hyperventilating www of eternal devotion, may give pause to a new lover in your life. The union solidarity page you put up at your first job-years before you were bucking for senior management - may come back to haunt your efforts to get a promotion. And who political opponent uncovered the image-rich homage to parin star Ashlyra Gere you postled didacy would go down in flames when your Similarly, postings to the Internet's 33,000 news groups may fall off the edge of Usenet after a week or so, but they five our in databases such as Deia News and the Internel Ar-chive. Marie Crady, a freeking writer in Woburn, Mass., was appalled to discover that her posts to online news, a small, onzy listsof 1,350 news professionals, was available to anyone through dozens of search enpured site, and it may well have yours. 2

query chiseled in stone," she said. In light of our litigious society, it could be dangerous to Many moderators post occasional notices post any message at all."

Most people don't have posterity in mind when they fire off notes or post Web pages. Observes Schneier: "When you're in college and posting things online, you're young and pact your words will have five mignites from

in college?

ganes on the Web. "I consider it an invasion of privacy to have words typed in response to a

would have predicted that your Senate can

about a list's public archiving policy. But not all do, and few issers read the fine print, anyway. The odd thing is, we perceive the Net extent than people are aware of," said Bruce as a conversation and not as public record, and it turns out to be public record to a larger Schneier, a cryptography consultant and coeditor of "The Electronic Privacy Papers," a 1997 book. "You can easily imagine in 20

ing records, property records and voter registration records might be realishle with

Should employers, neighbors and descendants not yet born be able to pole around in the digital aftic for information about you? a few heystrokes

Your children and grandchildren and yet

Cate believes there are good reasons why soch a bad thing," he says. "You can find out we shouldn't be so concerned. Tr's the democratizing of Big Brother, and that's not is much about your boss as he can about you In not really bappy that someone down the tall can follow me and make a database about me, but that's the way it is in the digital age. If your feelings get bruised, tough. If then you're stack with the things you said online years ago. I don't see this as a privacy the information's true and not distorted Saue,

Perhaps not in the narrowest sense. But if more democratic one? Sobel says, "If you define privacy as the right of individuals to control information about themselves—48 we somebody's professional, personal or politi-cal agenda, clearly we lose certain freedoms every online expression becomes fodder for of expression in the bargain. Do you really want to live next door to Big Brother, even a do-then mega-archiving systems clearly raise significant privacy fisues. These sys-

> immortal and you don't think about the imnow, much less five, 10 or 20 years down the We can already see the outlines of this

case "we need to preserve our digital hers, "to make nothred material available." I u Tage Uneas esclaptivationing it proxy possing." In the very oriended hymand privacy, train day we'll sloing (also record) of one of the st-feep brank of who bycover what about me. Kahle says he inunched his project begreat tuning points in human history. His Internet: Archive: and Alexa tave drawn widespread praise from academics, bistorians and Net ferrimentes condermed that the Web's pioneer days may snon become une it's a field day. For the rest of us, it's a mixed trievably lost. For researchers and scholars,

Sobel points out that individuals can't voyeursm machine. "I just got a phone call daughter's ex-boyfriend posted mude photos scual when they were taken So anddenly it's part of the public domain, and even if the even prevent private indiscretions from winding up as pert of the Internet's global from a distranght mother whose 16 year-old of her on the Web. The photos were consenmother persuades him to take them down, he may no longer have control over how long this stuff is out there. This teerage grit may

or she is the kind of person who already has a Kable offers another example. The press dent's personal bome page is probably in our arctives now—the person who'll become president in 20 or 30 years. You know that he have to live with that for the rest of her-life."

lems convert every passing thought and con-

new world. When you apply for a job in the high-tech sector, there's a fair chance your

TO TOO TOO WELL STATE TO THE PROPERTY OF THE P privacy advocates to determine the best w to make arctived material available. I us to be very oneuled toward privacy, toying cause I find that it's more wahable to who don't want to be found, we should said. The become less tonatical about it, found than for me to be obscure. ben be,

tion anymone? As the Net become uniquitous, its underlying essence with a price the loss of anonymity. We a being drawn fortibly, incourably, into il global town square. ne may well ask Do we have that c interconnectedness and community on

stirring ways. But we need to be aware th if we could?). It is becoming inextricubly w wen into the fabric of our everyday lives. As with liberainded individuals around to world and allowing us to interact in son our digital footprints are perstanent ones. should be, for the Net is a gift, connecting That is no reason to avoid the internet

tile vapor in the air. No longer, Our pasts at etched like a tattoo into our digital skins. R Once, words were spoken and vanish bether or worse, we're no longer a peop who can reinvent ourseives.

Nov. 11 1998 10:24AM P2

At the Library of Congress, a tiny strand of the Web

A new computer-age sculpture symbolizes the institution's role in keeping cyberdata.

> By Carl Hartman ASSOCIATED PRESS

ASHINGTON - Four bright red computer monitors, bolted together and flashing information too fast to read, are the Library of Congress' first piece of sculpture for the computer

Although it's a kind of museum, the library doesn't collect statues. Instead, it collects books - the world's biggest collection - plus maps, photographs, films and rarities such as the first printed Bible.

Forty-tour tapes lined up alongside the monitors contain the entire contents of the World Wide Web in the month's of January and February 1997 - two terabytes of material. The sculpture is just for show, a symbol of the library's role as a collector of cyberdata.

Anyone can see the tapes' content without charge from one of the library's public terminals or through the Internet, said associate librarian Winston Tabb.

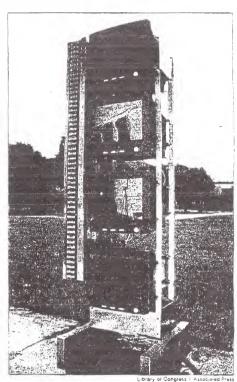
Just as the library carefully keeps its first books from Thomas Jefferson's collection, it is working on plans to hold onto essentials from the Web.

But it can't keep everything. It's trying to figure out what people will need, estimating that the Web now contains 320 million pages and will grow to a billion by the year 2000.

"Every week I percent of all Web pages are removed or changed," said Robert Zich, coordinator of the library's Digital Library Program. "But some of them are there just as they were in 1994 when we first started."

A terabyte of data is roughly equal to 1,000 copies of the Unoyclopedia Artiannica, said Brewster Kahle, the president of Alexa Internet, which donated the sculpture

The monitors in the sculpture show only a sample of what is on the tapes



A computer-monitor statue shows portions of 44 tapes containing everything on the Web in two months of '97.

By touching the surface of a screen, a viewer can hold the image for five seconds, long enough to read a hit of what it's about but not long enough to take much of a note. Then the next random images flash on and disappear.

For More Information

The tapes can be seen at http://www.alexa.com



FL - D340

DAILY NEWSPAPER
PALATKA DAILY NEWS

Palatka FL

Circ (E) 12 527

OCTOBER 23, 1998

Bacons

GEEK NOTES

Disks to the Library of Congress

The Library of Congress, the world's most voluminous library, grew by the equivalent of 2 million books on a single day last week. But rather than build thousands of new stacks to accommodate the growth, the library could fit the new addition into a small filing cabinet.

That is because the latest donation to the library came in the form
of computer disks — 44 of them,
each carrying 40 gigabytes of information. The disks include a snapshot of the entire contents of the
World Wide Web during the first
two months of 1997, including each
of the millions of individual Web
sites — the good, the bad, and even
the smutty stuff Congress does not
want kids to see.

The collection was gathered, stored and donated by Alexa. Internet of San Francisco, which has developed a tool bar that makes it easy to view Web-site background information like where the site is located, whether it has a privacy policy, or if it has won third-party endorsements or awards. The company's president, Brewster Kahle, said the donation preserves a moment in the life of the ever-evolving Web and can become a resource for sociologists and, eventually, historians who want to understand our era.

Alas, while the disks are on display at the library — as part of an interactive sculpture — their contents are not — yet.

"It's kind of a laboratory experiment for us," said Guy Lamolinara a spokesman for the Library of Congress, noting that some of the material was not suitable for collections, and the library was sinworking out copyright issues. "Will be using it to explore how to preserve digital materials, and how to provide access to these materials."

Kahle, who also oversees the nonprofit organization Internet Archive said the Web is growing at a rate of 1.5 million pages a day. Sounds as if the Library of Congress, in



METROWEST DAILY NEWS

2 40 - (F) 40 762 (9) 45 265

OCTOBER 25, 1998

History embraces the online age

Library of Congress harbors world's largest collection of cyberdata

By Carl Hartman

WASHINCTON — four bright red computer monitors, holted together and flashing information too fast to read, are the Library of Congress' first piece of sculpture for the computer age.

Although it's a kind of museum, the library doesn't collect statues Instead, it collects books — the world's biggest collection — plus maps, phous. If a superior is a library mean and rarities like the first printed Bible.

Forty-four tapes lined up alongside the momors contain the entire contents of the World Wide Web in the months of January and February 1997 - two serabytes of material. The sculpture is just for slow, a symbol of the library's role as a collector of cyberdata.

Anyone can see the tapes' content without charge from one of the library's public terminals or through the Internet, said associate librarian Winston Tabb

Just as the library carefully keeps its first books from Thomas Jefferson's own collection, it is working on plans to bold onto essentials from the Web.

But it can't keep everything. It's trying to figure out what people will need, estimating that the Web now contains 320 million pages and will grow to a billion by the year 2000.

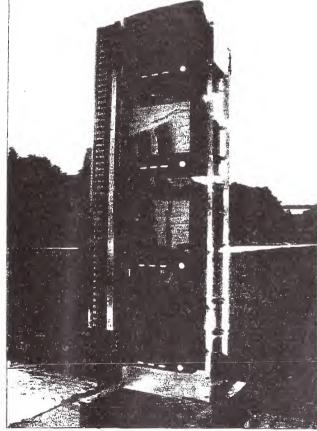
"Every wook 1 percent of all Weh pages are removed or changed." said Robert Zich, coordinator of the library's Digital Library Program. "But some or them are there just as they were in 1994 when we first started."

A terabyte of data is roughly equal to 1,000 copies of the Emprelopedia Brittanica, said Brewster Kahle, the president of Alexa Internet, which donated the sculpture.

Kahle pointed out that little has been preserved of the first radio and TV programs, and historians would like to have them now

The monitors in the sculpture show only a sample of what is on the tapes.

By touching the surface of a screen, the viewer can hold the image for five seconds, long enough to read a bit of what it's about but not long enough to take much of a note. Then the next random images flash on and disappear.



A sculpture, teaturing four bright red monitors bolted together and flashing screens too fast to read, was presented this month to the Library of Congress, the first sculpture depicting the computer are.

(The tapes can be seen at http://www.alexa.com)





Click here to get the full store







updated 4:00 a.m. 30.Oct.98.PST

Wired News



SEARCH

SECTIONS

Top Stories

Business

Culture

Technology

Politics

General News

FREE DELIVERY



NEWS OVERVIEW

Today

The Past 7 Days STOCKS

Ouotes (enter ticker):



Stocks

Graphing

Quotes

Indexes

Most Active Portfolios

Wired Index





WIRED MAGAZINE



Issue 6.10

Alexa's Gift to the Government by John Alderman

5:45 p.m. 14.Oct.98.PDT

While it may not be the Library of Alexandria, it contains more information than that great temple of learning did. And it fits onto 44 tapes.

The Library of Congress on Tuesday unveiled a sculpture of the Web donated by Alexa, Located in the Library of Congress Digital Library visitor center, it flashes random pages taken from the more than 500,000 Web sites archived by Alexa since 1996.

"The Library of Congress keeps much of the nation's creative materials, so we thought we should be preserving the electronic material as well," said library spokesman Guy Lamolinara.

Alexa first contacted the library in 1997 about making a donation of its Web archives. Rather than just handing over the 44 tapes in a plain cardboard box, the company commissioned an interactive digital sculpture. Digital artist Alan Rath used the tapes and four monitors to create "World Wide Web 1997: 2 Terabytes in 63 inches."

"We look at it not only as a donation, but as a lab experiment," said Lamolinara, adding that the library would, over time, investigate different uses for the material.

If users want hands-on interaction with the materials, they'll have to wait. No one at the library is yet sure how to deal with such a mass of information, and no front end has been built to comb through it. Alexa has no plans to help codify the snapshot.

Printing? Use this version.

CHITURE Today's Headlines

AOL, Oz Hit Big Screen

'Armageddon' for Porn Sites

Poles Tune In to Digital TV

Tripping the Grim Fandango

A 3D Tour of Silicon History

Crystal Ball for a Blue Planet

Rio Debut Back on Track

PBS Does DTV

Hit and Run No. CXLVIII

Oedipus Wrecks

Subscribe to Wired!

HOTWIRED

Front Door Webmonkey Web 101 RGB Gallery Suck.com

нотвот

Search Shopping

Wired News staff

Wired News is hiring

Contact us

Wired News delivered by Outlook Express, In-Box Direct, or PointCast "Our main point was, as long as we're gathering this stuff, let's put it somewhere where it will get care and feeding," said Bruce Gilliat, co-founder and general manager of Alexa.

"We haven't written code that lets people search through terabytes of information," Gilliat said. "It's as if we can direct someone to the right section, hall, or aisle, but not give the exact Dewey decimal number."

The library's larger task may be deciding what's relevant. The library, after all, is not in the business of preserving the mountain of written materials generated in offices around the world.

"We don't even do that with analog material," said Lamolinara. "A lot of people think we have every book printed, but that's just not true."

Alexa was founded in 1996 when Gilliat and Brewster Kahle, now the president, grew frustrated with the search engines available on the Net. They wondered what would happen if the "community of users could effortlessly pool [their] collective experience and add human intelligence to navigation."

The result of that pursuit has been Alexa. From the company's San Francisco base, computers crawl the Internet, looking at every available page and indexing and archiving the content.

Users read the Alexa archives via a toolbar that functions inside the user's browser. When a user visits a site, Alexa recognizes the location, identifies related links, and allows the user to comment on the site. If a site is no longer live, the toolbar suggests an archived version, if one is available.

Gilliat feels the company, now 35 employees strong, provides more than the navigational tool. Alexa's Web snapshots can offer a clearer view of the growing datastream that is the Web, he said. 300,000 domains in 1996 to over a

million in 1998 is a big task.

With the donation to the Library of Congress, at least some of the data has a permanent home.

Related Wired Links:

Kiss That 404 Goodbye 22.Sep.97

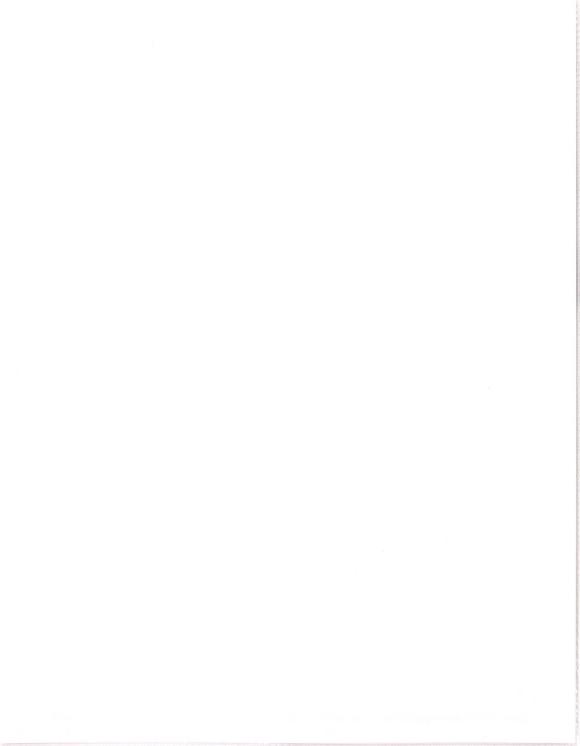
Net Surf: Alexa's New Navigation Service 1.Aug.97

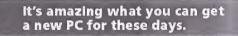
As Go Surfers, So Goes Alexa



Send us feedback | Work at Wired Digital | Advertise with us About Wired Digital | Our Privacy Policy

 $\underline{\text{Copyright}}$ © 1994-98 Wired Digital Inc. All rights reserved.





\$1000



PC WORLD TODAY

400 FileWorld Here's How

Columns Games

October 30

Current Issue

Alexa Monitors Surfing Conditions

Search

Internet Explorer add-on provides contact information, related news, and usage stats for each site you visit.

by Glenn McDonald, special to PC World October 27, 1998, 4:28 p.m. PT

Have you ever run into this problem? You want the phone number and address of a company you just read about--say, Acme Widgets--so reasonably enough you go online to www.acmewidgets.com. Trouble is, the Acme Widgets site suffers from a poor design, so you end up clicking through page after page looking for simple company contact information.

This happens to me all the time, and I silently curse the chucklehead Web designers who refuse to put critical information in obvious places. Luckily, a useful browsing utility from Alexa Internet can ferret out all manner of helpful data about the site you're visiting and arrange the information in an unobtrusive toolbar at the bottom of your screen.



Alexa 3.0 is currently in beta and available for free at Alexa's Web site (see link at right). It's a fast download--it took less than a minute over my 56-kbps dial-up connection--and it embeds itself directly into Internet Explorer with no set-up or installation hassles. (You need IE 4.0 or higher for this beta; a Navigator version is in the works, and previous versions of Alexa work with other IE versions and Netscape Navigator as well.)

Alexa provides contact information for the registered site owner, as well as a five-star rating system for four criteria--traffic, speed, freshness, and overall quality--as determined by Alexa's periodic sweeps of the Internet. Quality is determined by votes from other Alexa users. For selected sites Alexa also provides independent ratings borrowed from Yahoo Internet Life and eBlast, a Net directory run by Encyclopedia Britannica online.

All of this data is available on four separate toolbars that you can position horizontally or vertically in your browser window. Only one toolbar is visible at a time.



Related Links

Top 400: Internet Software

QCharts Gives Real-Time Stock Information

CompanySleuth Mines Online Info

Find It in FileWorld

Browser Add-ins and Patches

External Links

Alexa

Today's Headlines

Office Fix Is Fixed Where Was Gates? HP Workgroup Printers AMD K6-2 Notebook IBM's \$600 PC

Previous Article

Justice Department's
Turn to Counterattack

Next Article

Two Large Disk Makers Offer Faster Drives



The toolbars don't take up much real estate when positioned horizontally. When a toolbar is vertical, however, it occupies about a quarter of your browser window.

News and Finance Links

This latest version adds a new feature that provides related news and financial information from NewsReal's Industry Watch service. Go to Microsoft's Web site, for example, and you can click to Alexa's Related News and Finance page, which provides detailed company information (quarterly results, key competitors, stock quotes) as well as recent news stories and press releases. An Alexa spokesperson estimated that around 5000 companies are currently indexed with the News and Finance feature.

The new beta generally performed very well in my testing, although you often have to wait several seconds after a page loads up for Alexa to gather site information from its databases. Keep in mind that Alexa by no means catalogues all Web sites, but it does gather information from several sources and will have at least some supplemental data for most business sites.

Another interesting note: Alexa gathers contact information directly from InterNIC and other Web domain registration companies. I surfed to a friend's Web page dedicated to the San Francisco art scene and was surprised to see his home phone number and address in the Alexa toolbar. It's perfectly legit, and Alexa isn't the only way to get that kind of information, but most people don't know that giving out information to a domain registration company means essentially publishing it. If you have a personal or business Web page registered under a unique domain name, and you don't want specific addresses or phone numbers made available, contact your Internet registration organization.

Rate this article.

Copyright © 1998 PC World Communications. All Rights Reserved. Use of this service is subject to the PC World Online Terms of Service Agreement.

PC World Online Privacy Policy.

PC World Online complies with the <u>ASME Guidelines with IDG Extensions</u> for new media.

Shop Now Online!

Advertisement

CNET | Special Reports | News | Downloads | Hardware | Shopping | Gadgets | Games | Web Building | TV



Special Reports



^{vpda}Netscape Communicator 4.5

E back to intro

The best thing about Navigator 4.5 is its new array of search tools, which help you move more intelligently through the morass of Web content.

More from the CNET network

CNET News.com:

 Netscape announces TuneUp for IE

CNET.com:

- Battle of the sumo browsers: Communicator 4.x vs. IE 4.x
- The top email clients compared

More from the Web

- Communicator 4.5 release notes from Netscape
- Alexa navigation tool info from Alexa Internet

Browsing

Performance
For Communicator 4.5.

For Communicator 4.5, Netscape focused its efforts on stability and ease of use. The new Communicator is at least as stable as its predecessor, and its "Smart Browsing" features, explained below, make navigation simpler. On such a short production schedule, though, something had to give, and Netscape chose performance.

Not that 4.5 is a laggard, by any means. In our HTML- and GIF-loading tests, Communicator 4.5 outperformed 4.07 by a few percentage points--it's not a huge improvement, but at least you'll know 4.5 isn't a step backward. JavaScript performs more smoothly, and Java applets will load and initialize faster, too (though once they load, 4.5 will run them about as fast as its 4.0x ancestors). These additions are nice touches, but they're probably not reason enough to convert from a fast non-Netscape browser. Most of Netscape's performance enhancements are aimed at the Communicator 5.0 project, and the company says we should see significant improvements when it finally ships.

"Smart Browsing"

One thing no one can debate is 4.5's truly innovative browsing experience--what Netscape calls Smart Browsing. Communicator's new interface helps you navigate the morass of Web content with a minimum of fuss. The new Internet Keywords feature, for instance, lets you type a product name, trademark, or other keyword into the location field; the browser then searches its keyword database for an appropriate site. For example, if you type Ford Mustang into the Location field, 4.5 takes you to the Ford Motor Company Web site. If a keyword can't be found in Netscape's database, the request passes to Netcenter's Excite search. Overall, we like the feature, but it has a few wrinkles. Since Internet Keywords bounces requests for words such as *scripting* to a Web search rather than the more standard *www.scripting.com*, many small Internet sites that have invested in certain domain names justifiably complain that Netscape is hurting their traffic. Netscape thoughtfully provides an option to disable the feature if it's not your speed.

The other half of Smart Browsing is somewhat less controversial. To view sites similar to the one you're viewing, just click the new What's Related

button, and you get a drop-down menu of related links ranging from related-product reviews to competing Web sites. The links are pulled from a customized Alexa database, so the results are similar to those you'd find with Alexa's IE plug-in. In an interesting move, Netscape recently announced TuneUp for IE, an add-on that brings the entire Smart Browsing system to Internet Explorer users.



A click of the What's Related button on the Ford Web site produces a list of competitors--great for smart shoppers and researchers.

Content filtering

Parents and managers can block access to objectionable Web content with Nav 4.5's NetWatch, which supports PICS-based content filtering. (IE has offered content filtering since version 3.0, so it's long overdue from Netscape.)

Slicker setup and interface. Cool!



Where to shop

Advertiser links

- · Bid on memory, software, and more at Egghead Surplus Auction
- . Top Selling Software at BuyDirect.com
- Take advantage of great deals on computer products at Surplus Direct
- . Buy "Netscape Communicator for Dummies" at Borders.com



Click here for a Platinum Visa.

subscribe | how to advertise | help | corrections page

about CNET



CNET services: CNET.com | News.com | Computers.com | Builder.com | Gamecenter.com |

Download.com | Shareware.com | Browsers.com | Shopper.com | Search.com | Career Center | Snapl | Free email

CNET | Special Reports | News | Downloads | Hardware | Shopping | Gadgets | Games | Web Building | TV

Copyright @1995-1998 CNET, Inc. All rights reserved. Privacy policy.

Monday October 12 998

LEXISONEXISO Prot Proving

Page 1



Copyright 1998 The Washington Post The Washington Post

October 11, 1998. Sunday. Final Edition

SECTION: OUTLOOK, Pg. C01

LENGTH: 1836 words

HEADLINE: Your Past Is Your Future, Web-Wise

BYLINE: Joseph D Lasica

DATELINE: SAN FRANCISCO, Calif.

BODY:

Our past now follows us as never before. For centuries, refugees sailed the Atlantic to start new lives. Easterners pulled up stakes and went west to California. Today, however, reinvention comes less easily and second chances seem more remote. You may leave town, but your electronic shadow stays behind, as anyone who nas ventured onto the Internet well knows.

We often view the Internet as a communication medium or an information-retrieval tool, but it's also a powerful archiving medium that takes snapshots of our digital lives--which can be stored forever

It's not just official documents or consumer profiles about us that are being collected, but the very essence of our daily online existence. Our pointed opinions, prejudices, religious beliefs, sexual tastes and personal quirks are all becoming part of an immense media good that is congealing into a permanent public record. What is different about the digital archiving phenomenon is that our beliefs, habits and indiscretions are being preserved for anyone to sec--friends, relatives, nivals, lovers, neighbors, hosses, landfords, and even obsessed stalkers.

Take all those ordinary Web pages that many of us have created in a burst of enthusiasm with the new medium. People assume that their home pages disappear once they pull the plug. Not necessarily Sure, browsers and search engines give you a "404-File Not Found" message when you call up outdated Web pages. But those pages live on in other electronic nooks and crannies. Since 1986 the Internet Archive, a kind of digital warehouse, has been trolling the Web and hoarding everything it comes across—text, images, sound clips. Every two months, it scoops up the entire Web and stores the results on its virtual shelves. It has preserved my expired site, and it may well have yours.

Similarly, postings to the Internet's 33,000 news groups may fall off the edge of Usenet after a week or so, but they live on in databases such as Deja News and the Internet Archive. Mane Coady, a freclance writer in Woburn, Mass., was appalled to discover that her posts to online-news, a small, cozy listserv of 1,350 news professionals, was available to anyone through dozens of search engines on the Web. "I consider it an invasion of privacy to have words typed in response to a query chiseled in stone," she said. "In light of our litigious society, it could be dangerous to good any message at all."

Many moderators post occasional notices about a list's public archiving policy. But not all do, and few users read the fine print, anyway. The odd thing is, we perceive the Net as a conversation and not as public record, and it turns out to be public record to a larger extent than people are aware of," said Bruce Schneier, a cryptography consultant and co-editor of "The Electronic Privacy Papers," a 1997 book. "You can easily imagine in 20 years a candidate being asked about a conversation he had in a char room while he was in college. We're becoming a world where everything is recorded."

Beyond the question of informed consent lie larger questions: Should all of this electronic flotsam and jetsam be archived in the first place? What are the consequences for us if our digital footprints survive indefinitely? Who should decide whether they do survive?

The answers are hardly comforting, especially for those given to strong displays of emotion or opinion online. "We're now entering an era where tens of millions of people are speaking on the record without any understanding of what it means to speak on the record, and that's certainly unprecedented," says David Sobel, general counsel for the Electronic Privacy Information Center in Washington. "It is suddenly becoming impossible to escape your past."

http://web.texis-naxis.com/in.universe/page/rezults/search/ document?_naset=GaMauKO-MeRGRUUBRYO-YEWC-6W-



internet.com

Formerly Web Week

Letters/Opinion Current Issue News E-Commerce Intranet World Web Development Infrastructure **IW Labs** Internet Careers Industry ISP World **Career Connection**

Staff Bios **Editorial Beats** Editorial Calendar Back Issues Media Kit Career Connection Reader Link Subscribe





Sign up for the free Internet World Weekly Digest Email newsletter!

Join

Internet.com

BrowserWatch E-Commerce Guide InternetNews.com InternetProductWatch InternetShopper



Infrastructure

October 5, 1998

Alexa Bulks Up To Field Queries From Its Browser Companion

Tool for finding related Web sites will be in Navigator 4.5 and IE 4.0, putting a burden on company's infrastructure

By Sarah L. Roberts-Witt

Delivering a contextual, useful, and fun browsing experience and doing it quickly is a tall order, especially when the goal is to provide that service for each and every person on the Web.

But Brewster Kahle, president, CEO, and a founder of Alexa Internet, makers of the popular new browsing companion Alexa, is prepared to fill it. "We're trying to build a piece of Internet infrastructure, and we're Serving servers: Six 300-MHz trying to hit navigation for users in a different way by providing a surf engine," said Kahle.

At a Glance

Company: Alexa Internet

Headquarters: San Francisco

Business: A Web surf engine

Hosting Facility: Frontier Global Center, Sunnyvale, Calif.

Average bandwidth utilization: 5 Mbps for outbound; 15 Mbps for inbound when crawling, and 1 Mbps at other times

Crawling servers: Two dualprocessor Pentium Pros with 256 Mbytes of memory and 0.5 terabyte of disk space running proprietary software on Solaris; servers crawl at rate of 1 million pages per hour

Sun Ultra Enterprise IIs with 2 Gbytes memory and 2 Gbytes disk space running proprietary software; servers receive 2.6 million queries per day

Alexa is a nifty little toolbar utility that supplies surfers with a list of 10 contextually related sites; access to the 404 database, which holds copies of more than a million defunct Web sites; and access to Encyclopaedia Britannica's database. Also sitting on the toolbar are context-sensitive advertisements, which represent Alexa's main source of income.

The full version of Alexa 1.0, which runs as a separate toolbar, is available as a free download for Netscape Navigator and Internet Explorer 3.0. The recently released version 2.0 for IE 4.0 completely InternetWorld
JavaBoutique
PCWebopaedia
SearchEngineWatch
ServerWatch
Stroud's CWSApps
The List
WDVL
WebCompare.com
WebDeveloper.com
WebReference.com

Mecklermedia

Internet World Trade Shows Advertising Info Corporate Information Search Internet.com integrates Alexa into Microsoft's browser. The Netscape front is covered as well: In June, Alexa and Netscape announced that Alexa's related sites feature would be built into Netscape Navigator and Communicator 4.5.

Current estimates put the number of Alexa users at 200,000, a figure that could jump to 50 million or more. "When we met with Netscape, they said, 'Do you realize that half the people on the Internet will be sending a request to your server?' " said Kahle. "We said, 'No problem.""

Supporting Alexa's functionality is a hearty infrastructure based on a straightforward model: gather, store, data-mine, and serve.

The gathering portion involves crawling the Web for information, both text-based and graphical, to add to Alexa's current catalog of 20 million sites. Assigned the task of crawling are two dual-processor Pentium Pros with 256 Mbytes of memory and 0.5 terabyte of disk space running internally developed, proprietary software, which is rewritten approximately every six months.

The data that the crawling machines turn up is sent to two Storage Tech tape robotics systems, each of which has several 1.5-terabyte disks. One of the machines is used for data-mining purposes, and one for historical record and the 404 service. "We currently have about 12 terabytes of data on those machines," said Kahle, "which is a little more than half the size of the Library of Congress."

But things really get interesting in the data-mining portion of the equation. Part of what makes Alexa unique is that, unlike traditional surf engines, it examines surfers' usage patterns to determine which sites will be of most interest to the individual user.

With the exception of Aptec, which is used to data-mine text files, the software that discovers those patterns is internally developed.

The hardest-working machines in Alexa's network are those doing the serving. These six machines--which handle 2.6 million queries per dayare 300-MHz Sun Ultra Enterprise IIs with 2 Gbytes of memory and approximately 2 Gbytes of disk space, running proprietary, internally developed database and Web server software.

To keep the pace pumping, Alexa uses XML instead of full HTML for outgoing responses. Alexa's outbound traffic peaks at around 5 Mbps.

One more server inhabits Alexa's site: the ad server. It's a Sun Ultra Enterprise II with the same configuration as the serving servers. It's running NetGravity as well as proprietary ad-targeting software. Alexa currently serves between 50 million and 60 million ad impressions per month.

Initially, Alexa housed its server farm at the company's San Francisco

headquarters. However, like many other Internet heavyweights, it decided to colocate its site at Frontier GlobalCenter in Sunnyvale, Calif., making the move in mid-September.

"We crawl the Net, which means we pull bits, whereas most others push bits, and Frontier GlobalCenter was willing to work with us on pricing and what we needed." For inbound traffic, Alexa averages 15 Mbps during crawling periods and 1 Mbps at other times.

The challenges keep coming for Alexa. Its Version 3.0, planned for a launch this month, will allow surfers to browse in business, casual, research, and comparative shopping modes. "Alexa 3.0 is going to put a little more work on our servers," said Kahle. "But we'll just keep throwing on more hardware and developing better and more refined algorithms."

RELATED STORIES:

infrastructure

Keywords: infrastructure Date: 19981005

www.aircanada.ca is an IBM e-business

Copyright 1998 Mecklermedia Corporation.
All Rights Reserved. <u>Legal Notices</u>.

http://www.internet.com



Inquisit Article Full Text

Page



Agent Report

Forward This Article To A Friend | Earn Air Miles | Modify Your Agents | Contact Support | Home

Click here to jump to the first keyword your agent found.

Organizing the chaos that is the Internet, // Alexa successfully guides users through maze of information (Austin American-Statesman: 10/07/98)

The Internet's vast resources are often compared with a library with all the books dumped on the floor. That's not a pretty picture. But when search engines fail by retrieving too much information to handle, the analogy feels close to the truth.

Alexa (www.slexa.com), named for the great library of Alexandria, Egypt, that was destroyed by fire in the third century, is a unique effort to both preserve the body of information contained in the Internet, where countless pages are scrapped every day, and to provide intelligent assistance in navigating its random paths.

During the past six months, an Alexa toolbar residing at the bottom of my browser has been feeding me site stats -- data about each site I visit -- and offering recommendations on other sites that I might try for related information.

Suppose you go to the Dead People Server, a site that has exhaustive information about those no longer with us, organized alphabetically (wmcn I'm there, Alexa shows me other sites like Find-a-Grave, the Political Graveyard, Biography, We'll Alwaye Remember (the home page for dead rock stars) and, of course, Dead Elvis' Page.

Moving on to Biography.com, I can click on another button to find out who owns this site (the Biography Channel) with address, phone contact number, the domain's registration date and other information -- like how the site ranke in terms of Web visitors, its speed, freshness, number of pages and how many other sites link to it.

If available, there are also site reviews and the collaborative ratings of Alexa users. (You're offered the opportunity to vote on whether you like each site.)

And yes, there's an ad, a very small ad, that changes as I move to a new site.

There's also a mysterious button that's temporarily grayed out, but will be made active again this month. When this "archive" function returns after some reconstruction, Alexa will allow you to retrieve dead Web pages -- ones that used to be there but now yield a "404 Not Found" mossage when you ask for them.

Alexa pulls off this miracle by dipping into its 12 trillion byte archive, which contains copies of Web pages that it's been collecting since early 1996 It's been taken off line for work because the archive just got too big to serve back quickly.

I confess that I am hooked on Alexa. But what is it? Not exactly a search engine, not really a Web site directory . . .

"The term that seems to be sticking is surf engine," said Brewster Kahle, chief executive of Alexa Internet, which has its headquarters in the Presidio in San Francisco. Kahle also founded the nonprofit Internet Archive of the Web to record the history of cyberspace in 1996. "It's an Internet assistant, like having a really smart friend with you."

Trend Watchers take note: Wired magazine's September issue deemed surf engines "wired" and portals "tired." Portal sites try to hold your attention and keep you, while Alexa travels out on the Web with you and guides your path.

Surfing with Alexa gives consumers and business people information that http://www.inquipit.com/AIA7A-AI-f-AustinAmericanStatesmanThursday, October 8, 1998

Inquisit Article Full Text

Poge 2

helps them make "information trust decisions." according to Kahle. For each of the 1 million Web hosts documented and ranked in popularity by Alexa, information on who's behind it and where it's located is collected from official domain name registration information. Site reviews and ratings come from Alexa partners, such as Yahoo Internet Life and the Recreational Software Advisory Council.

But the collective intelligence bohind the related links feature that makes Alexa unique comes from uscrs like me and you. When activated next to our browsers, Alexa anonymously tracks the decisions that we make about what's worthwhile or worthless, analyzing our clicking on or clicking away from pages on the Web.

It calculates the paths that we choose and the time that we spend visiting. Then the information is used in aggregate to help inform future users. It could be called a recommendation engine. Overall Web traffic patterns, link structures and the content of Web pages figure in to the compilation of related links.

The usage paths are separate from information that could identify an individual: Alexa says it follows a privacy policy ensuring that any information from an individual will not be provided to a third party. I'm sure that some people won't trust that promise on privacy, but it's good enough for me.

The other nice thing about Alexa: You don't have to buy it. The newest version of Netscape Communicator (4.5) has the Alexa links feature embedded as its "What's Related" component of Smart Browsing. Internet Explorer 4.0 has a version of the full Alexa service that can be installed in less than a minute.

You may also download Alexa for Netscape Navigator 3, Communicator 4 or Internet Explorer 3 running on Windows 95 or NT 4.0. An "alpha" version for the Macintoch is available for testing.

Don't wait. Get it now.

(Copyright 1998)

___via IntellX____

(A1: AustinAmericanStatesman-1008.02015) 10/07/98

Forward This Article To A Friend | Earn Air Miles | Modify Your Agents | Contact Support | Home

Inquisit is a personal intelligence service that delivers just the news and information you need, right to your email box. Your personal agents search through hundreds of newspapers, magazines, journals and wire services from around the world. Articles are delivered real-time or on your personal schedule. If you are not already an Inquisit subscriber, sign up for a free trial at: http://www.inquisit.com.

Monday October 11 1938

LEXISO-NEXISON Poor Program

Page 2

Your children and grandchildren not yet born will be able to reconstruct a record of your digital life--not just the good stuff but also the best-forgotten postings to alt sex fish or rec nude. The Web shinne you once erected to an old flame, with its hyperventilating yours of eternal devotion may give pause to a new lover in your life. The union solidarity page you put up at your first job--years before you were bucking for senior management--may come back to naunt your efforts to get a promotion. And who would have predicted that your Senate candidacty would go down in itames when your political opponent uncovered the image-rich nomage to poin star Ashiyn Gete you posted in college.

Most people don't have posterity in mind when they fire off notes or post Web pages. Observes Schneier: "When you're in collège and posting things online, you're voung and immortal and you don't think about the impact your words will have five minutes from now, much less five. 10 or 20 years down the road."

We can already see the outlines of this new world. When you apply for a job in the high-tech sector, there's a fair chance your prospective employer will use a search engine to scout out your online postings, from late-night musings to intemperate rants fired off to a political news group. Would an employer's decision be colored by information that has nothing to do with a candidate's job qualiffications, such as your out-of-the-mainstream religious beliefs, sexual orientation. HIV status or personal habits? Absolutely, and without apology. After all, "character" counts, too.

Federal law makes it a crime for agencies to compare most digital information about U.S. citizens, points out Fred Cate, a law professor at Indiana University and author of "Privacy in the Information Age." But nothing prevents private companies or individuals from doing so. Criminal convictions, driving records, property records and voter registration records might be available with a few keystrokes.

Should employers, neighbors and descendants not yet born be able to poke around in the digital attic for information about you?

Cate believes there are good reasons why we shouldn't be so concerned. "It's the democratizing of Big Brother, and that's not such a bad thing," he says, "You can find out as much about your boss as he can about you. I'm not really happy that someone down the hall can follow me and make a database about me, but that's the way it is in the digital age. If your feelings get bruised, tough. If the information's true and not distorted, then you're stuck with the things you said online years ago. I don't see this as a privacy issue."

Perhaps not in the narrowest sense. But if every online expression becomes fooder for someody's professional, personal or political agenda, clearly we lose certain freedoms of expression in the bargain. Do you really want to live next door to Big Brother, even a more democratic one? Sobet says. If you define privacy as the right of individuals to control information about themselves—as we do—then mega-archiving systems clearly raise significant privacy issues. These systems convert every passing thought and contemporaneous musing into a permanent, retrievable record—without, in many cases, the knowledge or consent of the creator.

Even Brewster Kahle, who founded the nonprofit Internet Archive (www.archive.org) and its commercial offshoot, Alexa Internet (www.archive.org) says, "There are some tricky issues here. A lot of this material is public, but is it really meant to endure?"

What Kahle is doing is nothing less than astonishing. Alexa's 32 employees, working in a century-old building in San Francisco's Presidio, sends our "spiders" to crawl the Web and Usenet and store the text, video and audio on a digital jukebox age drive. It takes about two months to capture all 300 million publicly accessible Web pages. So far they've scooped up 10 terabytes of content, or 10 trillion bytes

Kahle says he launched his project because "we need to preserve our digital heritage. Unless we start saving it, every passing day were losing the record of one of the great turning points in human history." His Internet Archive and Alexa have drawn widespread praise from academics, historians and Net luminaries concerned that the Web's pioneer days may soon become tretirevably lost. For researchers and scholars, it's a field day. For the rest of us, it's a mixed blessing

Sobel points out that individuals can't even prevent private indiscretions from winding up as part of the Internet's global voycunsm machine. "I just got a phone call from a distraught mother whose 16-year-old daughter's ex-boyfriend posted nude photos of her on the Web. The photos were consensual when they were taken. So suddenly it's part of the public domain, and even if the mother persuades him to take them down, he may no longer have control over how long this stuff is out there. This teenage girl may have to live with that for the rest of her life."

Kahle offers another example: "The president's personal home page is probably in our archives now-the person who'll become president in 20 or 30 years. You know that he or she is the kind of person who already has a Web page up in college."

Are we condemned, then, to a future where journalists will pore over every online college-age musing of a prospective president? It appears that way. "I'm still struggling with the issues raised by this." Sobel says. "We need a public debate to redefine the concepts of what should be private and public. Should anyone be able to type your name into a search engine and come up with public records about your private life? What good are laws that expunge a crime from your record if the old records remain accessible to anyone on the Net? What about information that's misleading, inaccurate, or that you had no idea was out there in cyberspace?"

Monday, October 12, 1998

LEXISO-NEXISO Print Proview

Been 2

Kahle is well aware of the debate, and he's working with legal experts, historians and privacy advocates to determine the best way to make archived material available. "I used to be very oriented toward privacy, trying to keep track of who knows what about me." he said. "Two become less fanatical about it, because I find that its more valuable to be found than for me to be piscure. For those who don't want to be found, we should let them be."

One may well ask: Do we have that option anymore? As the Net becomes ubiquitous, its underlying essence of interconnectedness and community come with a price: the loss of anonymity. We are being drawn forcibly, inexorably, into the global town square

That is no reason to avoid the Internet (as if we could!). It is becoming inextricably woven into the fabric of our everyday lives. As it should be, for the Net is a gift, connecting us with like-minded individuals around the world and allowing us to interact in soul-stirring ways. But we need to be aware that our digital footprints are permanent ones.

Once, words were spoken and vanished like vapor in the air. No longer. Our pasts are etched like a tattoo into our digital skins. For better or worse, we're no longer a people who can reinvent ourselves

Joseph Lasica writes frequently about new media.

GRAPHIC: Illustration, PETER ALSBERG

LANGUAGE: ENGLISH

LOAD-DATE: October 11, 1998

Client ID: 160

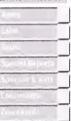
Search: General News: alexa internet

② Noost LEXIS-NEXIS ② Terns & Conditions 😿 What a New

Converget @1998 LEXIS-NEXIS, a division of Reed Elsevier inc. All lights reserved.









Search FAOs

Subscribe

PCW Marketing

Cataract Sudio

WAITING FOR THE PHOTO LAB SUCKS!!

NOW!NOW!NOW!! VIRTUAL-WORLD COM



Barksdale shows off Netscape's Custom Netcenter

By Jim Kerstetter, PC Week Online October 8, 1998 5:29 PM ET

NEW YORK -- Imagine a day when every corporate Web site can be a portal. Every site gets to provide content, and every site is a destination point for Web users.

Nonsense? Heresy? It just ain't gonna happen? Don't tell that to Netscape Communications Corp. CEO James Barksdale. In fact, Barksdale thinks the proliferation of corporate portal sites is just a year away. And, of course, they'll have help from Netscape's own Netcenter, browsers and enterprise software.

"We feel like our destiny lies in the coming together somehow of all three of those things," Barksdale told his Thursday afternoon keynote audience here at Internet World.

Barksdale used his address to unveil the latest ripple in the Mountain View, Calif., company's strategy for the growing Netcenter portal site. It's called Custom Netcenter. Netscape will partner with customers such as the U.S. Department of Defense to blend content from both organizations. Netscape will provide whatever content or resources the Defense Department wants for its site. The end result is that both sites get more visitors, and Netcenter comes closer to Barksdale's goal of becoming the most popular consumer Web site by the year 2000.

PC Week Headlines

- Ciroups call for Intel boycott
- Still waiting for Windows 2000
- IBM to launch small-business PC
- AT&T's fourth quarter right on target
- Sun set to release Jini -- and take its lumps
- Report: Andreessen to become AOL's chief technology officer

Contactus

____ E-mail this story

Print this!

Related Stories

Ellison comes to bury client/server, not to praise it

<u>AT&T's Armstrong touts</u> '<u>multibillion dollar bet' on</u> <u>IP</u>

ZDNN News Special: Fall Internet World '98

COMPANYFINDER.COM News, Financials, Products

Alexa Internet

Netscape

Communications Corp

Network Associates, Inc.

Enter a company

F GET INFO

Barksdale took his audience on a tour of the Netcenter site, touching on Netcenter Contact, a personal contact directory that will be rolled out soon for subscribers to the My Netcenter personalization service; Fax Center, which will provide users with fax services; and Smart Browsing, a feature in Netscape Communicator 4.5 that allows users to type in regular words on

On PC Week Radio:

Listen to a rebroadcast of <u>Barksdale's Internet</u> <u>World keynote.</u>

the URL line and go right to a site. It also offers a pull-down menu of other sites that have the same information.

Smart Browsing is based on Web directory technology from San Francisco startup Alexa Internet Inc. And it's the same technology that another company, Network Associates Inc., is banking on for its new portal site.

The Santa Clara, Calif., company came to Internet World to demonstrate McAfee Online, which will be Network Associates' entry into the portal market later this month.

At the heart of McAfee Online is the Traveling Portal technology. Network Associates will provide users with an Internet Explorer browser that contains an ActiveX link directly back to the site. Using the Alexa index, it will display other sites a user may want to visit right at the bottom of the screen.

McAfee Online, a new company division with more than 50 employees, will focus on service and support for software users. In addition to offering the usual mix of news, software, music and book purchasing, it will have a subscription-based service called McAfee Garage 1.0. When users "park" in the garage, they can get an online virus scan, update or deinstall software, and obtain other computer advice.

Users will be able to make a connection to the site with an encrypted Secure Sockets Layer link, said Srivats Sampath, vice president of worldwide marketing at Network Associates.



Alexa Internet serves as a guide to Web sites

If you are a frequent Web surter and haven't encountered Alexa Internet, make your next connection to www.alexa.com.

Alexa is one of those concepts that make you want to say, "that

really makes sense. I wish I'd thought of that.



BROWN

Alexa Internet is a 'surf engine' that travels with you from site to site. Unlike a Web portal, which is more like a

"doorway," Alexa is more like a guide by your side,

always ready to lend a helping hand

So what does this guide look like and do?

Alexa is a free Web navigation toolbar available at the bottom of your browser that provides some very useful information including stats on the site, related links and access to reference materials. In addition there is an archive button, a voting button, and yes, a small unobtrusive advertisement. (How else would it be free?)

Clicking on stats brings up a frame containing information on the site owner from official domain name registration information, ratings and reviews of

the site, site statistics and electronic commerce endorsements

For instance, the stats for www.onwis.com indicate that the site is registered to Journal Sentinel Inc. along with the address and phone number information. It has been online since March 5. 1996. There are ratings from Alexa visitors as well as the Yahoo rating and the number of

Additionally the number of links, the number of pages, speed and freshness ratings are available.

The more Web surfers that use Alexa, the more valuable it becomes, due to the collective participation of the users.

Users are able to suggest related sites, but the software also gathers, manages and analyzes usage paths to identify similar

Born from the vision of navigation "that learns and improves over time with the colleclive participation of its users, Alexa marks a new class of software.

The desktop reference button links to Web searching, plus a desktop reference library including Britannica Internet Guide, Encyclopaedia Britannica, and Merriam-Webster Dictionary and Thesaurus.

It doesn't take long to surf the Web to encounter the error "404 - Not Found." Alexa has been

archiving Web pages since 1996 and so far has collected more than 500,000 sites.

Unless you are looking for a very small site, chances are good that the site that you are trying to find is one of those archived. When this error is encountered, the software looks to see if there is an old copy on the Alexa servers in San Francisco.

If one is found, the archive button changes to a blue page icon. Clicking on this icon re trieves the former site from the archive.

Users are encouraged to vote on whether a particular site is useful and these tallied votes are available to all.

lf you have a Web site, you will find the stats information valuable

Probably more valuable, however, would be to check the stats of your competition.

Alexa Internet is a small 700K download. It works in parallel with either Netscape's or Microsoft's browsers version 3.0 or ahove

A Macintosh version is currently undergoing testing

If you are a Microsoft Office 97 user and did not get around to downloading and installing the recent service pack upgrade, you can wait a little longer.

Due to reports of install prob-Iems. Microsoft has removed the upgrade and is working on a fix for the install problem. If you downloaded the upgrade and were able to successfully install it, you are fine and won't need the new version as Microsoft indicates that the install portion is the only part that is changing. Problems were reported from users who had not installed the previous service update.

Visit www.microsoft.com/ office for further information as well as information on the upcoming Office 2000.

Judy Brown is emerging technology Judy Brown is emerging technology analyst with the Wisconsin Technical College System. She also coordinates the corporate partner program for PC Week, a publication of 21th-Davis Inc. She can be reached electronically at judybrown@execpc.com.

Mech. cyber 'sl

faster.

As many Wind know, it really ca ple programs at speed up performant trying to do that

one program at a Now, I've pain corner. An upgra 98 would probab of your troubles. need to add hard operating system

Send auestions to of Washington Po NW, Washington, E via e-mail at jgilro

Computer seller to host trade

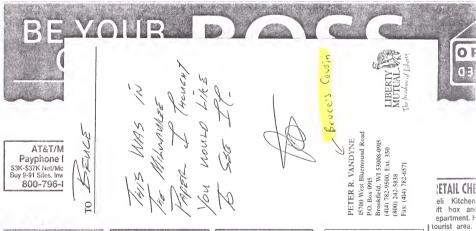
Entre P.C. Solutions Inc., a Brookfield-based computer seller, will host a computer trade show/seminar Thursday for Milwaukee businesses interested in networking with computer firms.

"Connectivity Fair 1998" is the seventh annual event and will feature 40 vendor booths, six keynote speakers and 12 software training seminars at the Country Inn Conterence Center, 2810 Golf Road,

The one-day of a.m. and will end

The seminars such as "Exploit with Microsoft "Keys to Attract ing Technical Pi "Status of Gove dustry Y2K Initia

For more info the event, call ext. 3122.



BUDGER \$15-\$30/Hr potential Easy medical

billing, full training, PC/Modem required \$299 invest 1-800-942-8141, Ext. 12

WE'LL SHOW YOU THE MONEYI (JUST CALL OUR CLIENTS!) 3-5 hrs/wk. No sales.

\$10,880 Investment. Free Info. 800-876-3326

HUNTING/Sporting Goods General lines of hunting apparel and equipment. Indoor open ar-chery lanes. COMPUTERIZED AR-CHERY by Johnson Creek Outlet Mall. \$207,000.

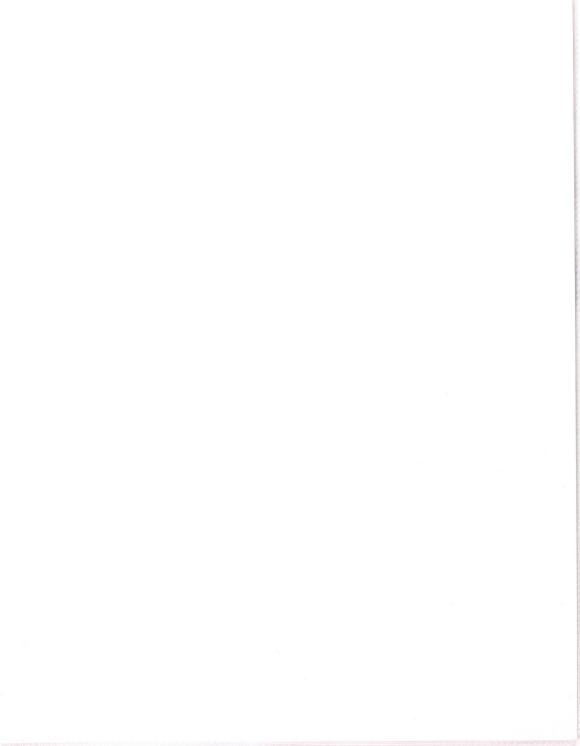
Homes by Patti Jo 920-261-8022

A 20 Machine VENDING route - Must sell by 10/21 Invest \$6K to earn \$4K+/mo. NO GIMMICKS!

1-800-925-7379, 24 hrs.

good rental miles North

Owner 920-99



Monday October 12, 1998

LEYISANNEYISA Poor Pravious

Page 1



Copyright 1998 Federal Information Systems Corporation FNS DAYBOOK

OCTOBER 12, 1998, MONDAY

EDITION FINAL

SECTION: GENERAL NEWS EVENTS

LENGTH: 112 words

HEADLINE: EVENT CONFERENCE - ONLINE WORLD

BODY

SUBJECT: Online World holds a "Conference and Expo for Internet Researchers and Managers." Highlights: -- 9 a.m. - Opening Session keynote Address: "Datamining the Internet for Quality," Brewster Kahle, Alexa Internet -- 10:45 a.m. - Concurrent sessions: "Practical Searching: The Way We Search Now." "Trends and Echnology: Internet Technology Update" "Resource Management: Web-Based Training" "Content Review: Sci-Tech" Roundtable Discussion LOCATION: Washington Hilton and Towers, 1919 Connecticut Avenue NW, Washington. DC -- October 12, 1998 CONTACT: Elizabeth Mcmahon, 203-761-1466 ext. 524

LANGUAGE: ENGLISH

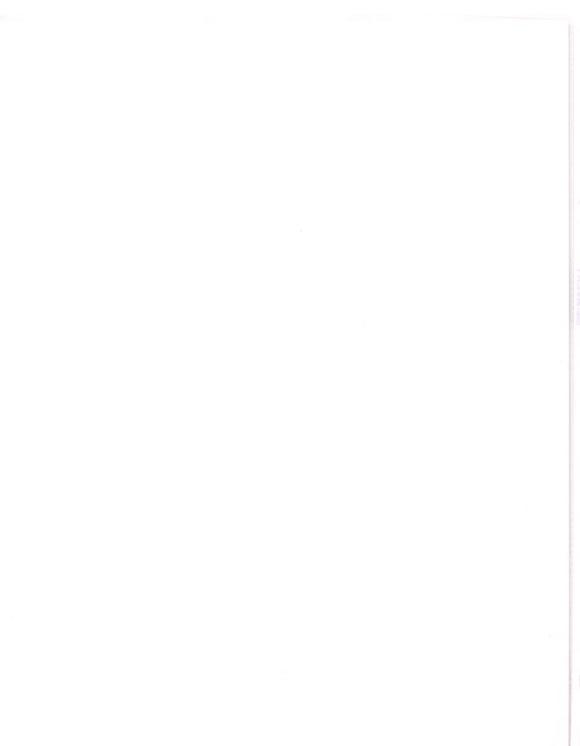
LOAD-DATE: October 11, 1998

Client ID: 160

Search: General News; alexa internet

@ About LEXIS-NEXIS @ Ferms & Condutions @ What's New

Copyright @1988 LEXIS-NEXIS, a division of Road Elsevier Inc. All rights reserved.



Yuesday, October 13, 1998

LEXISO NEXISO Print Preview

Page 1

LEXIS°-NEXIS° Universe

Copyright 1998 Associated Press AP Online

October 13, 1998; Tuesday 16:10 Eastern Time

SECTION: Washington - general news

LENGTH: 335 words

HEADLINE: Congress Opens Cyberspace Library

BYLINE: CARL HARTMAN AP-Web-History ,0377

DATELINE: WASHINGTON

BODY:

Four bright red computer monitors, bolted together and flashing information too fast to read, are the Library of Congress' first piece of sculpture for the computer age.

Although it's a kind of museum, the library doesn't collect statues. Instead, it collects books the world's biggest collection plus maps, photos, films and rarities like the first printed Bible.

Forty-four tapes lined up alongside the monitors contain the entire contents of the World Wide Web in the months of January and February 1997 two terabytes of material. The sculpture is just for show, a symbol of the library's role as a collector of cyberdata.

Anyone can see the tapes' content without charge from one of the library's public terminals or through the Internet, said associate librarian Winston Tabb.

Just as the library carefully keeps its first books from Thomas Jefferson's own collection, it is working on plans to hold onto essentials from the Web.

But it can't keep everything. It's trying to figure out what people will need, estimating that the Web now contains 320 million pages and will grow to a billion by the year 2000.

"Every week 1 percent of all Web pages are removed or changed," said Robert Zich, coordinator of the library's Digital Library Program. "But some of them are there just as they were in 1994 when we first started."

A terabyte of data is roughly equal to 1,000 copies of the Encyclopedia Brittanica, said Brewster Kahle, the president of Alexa Internet, which donated the sculpture.

Kable pointed out that little has been preserved of the first radio and TV programs, and historians would like to have them now.

The monitors in the sculpture show only a sample of what is on the tapes.

By touching the surface of a screen, the viewer can hold the image for five seconds, long enough to read a bit of what it's about but not long enough to take much of a note. Then the next random images flash on and disappear.

The tapes can be seen at http://www.alexa.com

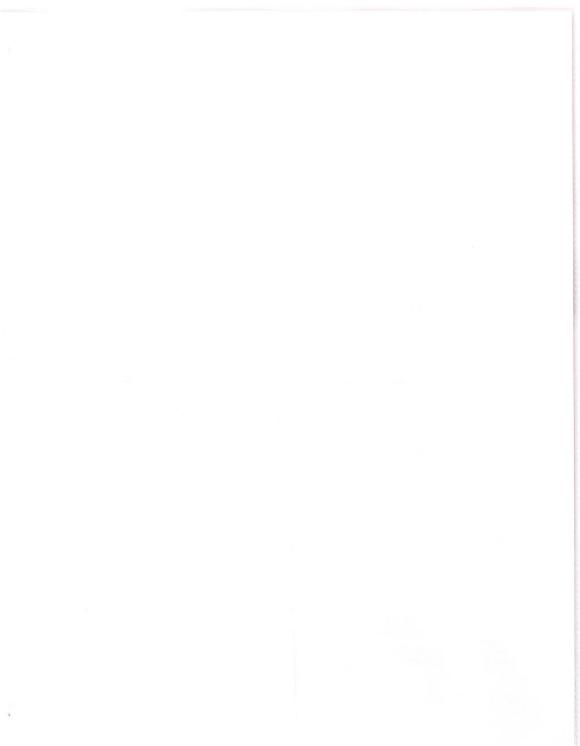
LANGUAGE: ENGLISH

LOAD-DATE: October 13, 1998

Client ID: 160

Search: General News; Alexa Internet

http://web.ioxia-nexis.com/in.univerce/page/resulta/search/ document?_ansset_GeHauKO-MaSDAARGRUUARIDV-EAVD-EY-





10/13/98- Updated 05:38 PM ET

The Nation's Homepage

Congress opens cyberspace library

WASHINGTON -- Four bright red computer monitors, bolted together and flashing information too fast to read, are the Library of Congress' first piece of sculpture for the computer age.

Although it's a kind of museum, the library doesn't collect statues. Instead, it collects books — the world's biggest collection — plus maps, photos, films and rarities like the first printed Bible.

Forty-four tapes lined up alongside the monitors contain the entire contents of the World Wide Web in the months of January and February 1997 — two terabytes of material. The sculpture is just for show, a symbol of the library's role as a collector of cyberdata.

Anyone can see the tapes' content without charge from one of the library's public terminals or through the Internet, said associate librarian Winston Tabb.

Just as the library carefully keeps its first books from Thomas Jefferson's own collection, it is working on plans to hold onto essentials from the Web.

But it can't keep everything. It's trying to figure out what people will need, estimating that the Web now contains 320 million pages and will grow to a billion by the year 2000.

"Every week 1 percent of all Web pages are removed or changed," said Robert Zich, coordinator of the library's Digital Library Program. "But some of them are there just as they were in 1994 when we first started."

A terabyte of data is roughly equal to 1,000 copies of the Encyclopedia Brittanica, said Brewster Kahle, the president of *Alexa* Internet, which donated the sculpture.

Kahle pointed out that little has been preserved of the first radio and TV programs, and historians would like to have them now.

The monitors in the sculpture show only a sample of what is on the tapes.

By touching the surface of a screen, the viewer can hold the image for five seconds, long enough to read a bit of what it's

about but not long enough to take much of a note. Then the next random images flash on and disappear.

The tapes can be seen at http://www.alexa.com.

By The Associated Press

Copyright 1998 <u>Associated Press</u>. All rights reserved. This material may not be published, broadcast, rewritten or redistributed.

ALV _ DSQ0

DAILY NEWSPAPER

THE DAILY GAZETTE
Scheneciady NY

Circ - (M) 56.893 (S) 58.323

OCTOBER 14, 1998

Bacon's

2 terabytes of data displayed at library

A sculpture from the Information Age

By CARL HARTMAN
The Associated Press

WASHINGTON — Four bright red computer monitors, bolted together and flashing information too fast to read, are the Library of Congress' first piece of sculpture for the computer age.

Although it's a kind of museum, the library doesn't collect statues. Instead, it collects books — the world's biggest collection — plus maps, photos, films and rarities like the first printed Bible.

Forty-four tapes lined up alongside the monitors contain the entire contents of the World Wide Web in the months of January and February 1997

— two terabytes of material. The

sculpture is just for show, a symbol of the library's role as a collector of cyberdata

Anyone can see the tapes' content without charge from one of the library's public terminals or through the Internet, said associate librarian Winston Tabb.

Just as the library carefully keeps its first books from Thomas Jefferson's own collection, it is working on plans to hold onto essentials from the Web

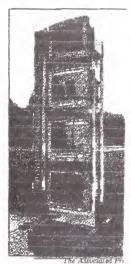
But it can't keep everything. It's trying to figure out what people will need, estimating that the Web now contains 320 million pages and will grow to a billion by the year 2000.

"Every week 1 percent of all Web pages are removed or changed," said Robert Zich, coordinator of the library's Digital Library Program. "But some of them are there just as they were in 1994 when we first started"

A terabyte of data is roughly equal to 1,000 copies of the Encyclopedia Brittanica, said Brewster Kahle, the president of Alexa Internet, which donated the sculpture.

Kable pointed out that little has been preserved of the first radio and TV programs, and historians would like to have them now

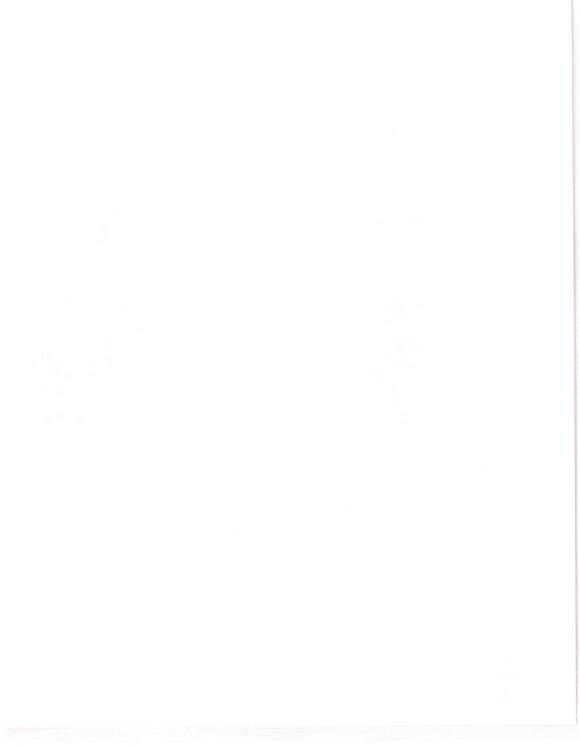
The monitors in the sculpture show only a sample of what is on the tapes. By touching the surface of a screen.



A sculpture — featuring four coputer monitors botted together a flashing on screens informati too fast to read — was present to the Library of Congress in Warington, D.C., on Tuesday.

the viewer can hold the image for fi seconds, long enough to read a bit what it's about but not long enough take much of a note. Then the arandom images flash on and dis-

The tapes can be seen at htt www.alexa.com



Des Moines, IA

Circ - (M) 161,550 (S) 267,641

OCTOBER 14, 1998
Bacon's

Library of Congress shows computer age

■ A monitor sculpture offers a peek at the current world of information.

Washington, D.C. (AP) — Four bright-red computer monitors, bolied together and flashing information too fast to read, are the Library of Congress furst piece of sculpture for the computer age.

Although it's a kind of museum, the library doesn't collect statues. Instead, it collects books — the world's biggest collection — plus maps, photos, films and rarities like the first printed Bible.

Forty-four tapes lined up alongside the monitors contain the entire contents of the World Wide Web in the months of January and February 1997 — two terabytes of material. The sculpture is just for show, a symbol of the library's role as a collector of cyberdata.

Anyone can see the tapes' content without charge from one of the library's public terminals or through the Internet, said associate librarian Winston Tabb.

Just as the library carefully keeps its first books from Thomas Jefferson's own collection, it is working on plans to hold onto essentials from the Web.

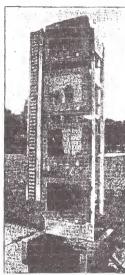
But it can't keep everything It's trying to figure out what people will need, estimating that the Wcb now contains 320 million pages and will grow to a billion by 2000.

"Every week I percent of all Web pages are removed or changed," said Robert Zich, coordinator of the Iibrary's Digital Library Program. "But some of them are there just as they were in 1994 when we first started."

A terabyte of data is roughly equal to 1,000 copies of the Encyclopedia Brittanica, said Brewster Kahle, president of Alexa Internet, which donated the sculpture.

Kahle pointed out that little has been preserved of the first radio and TV programs, and historians would like to have their now.

The monitors in the sculpture



A sculpture of four monitors sits at the Library of Congress.

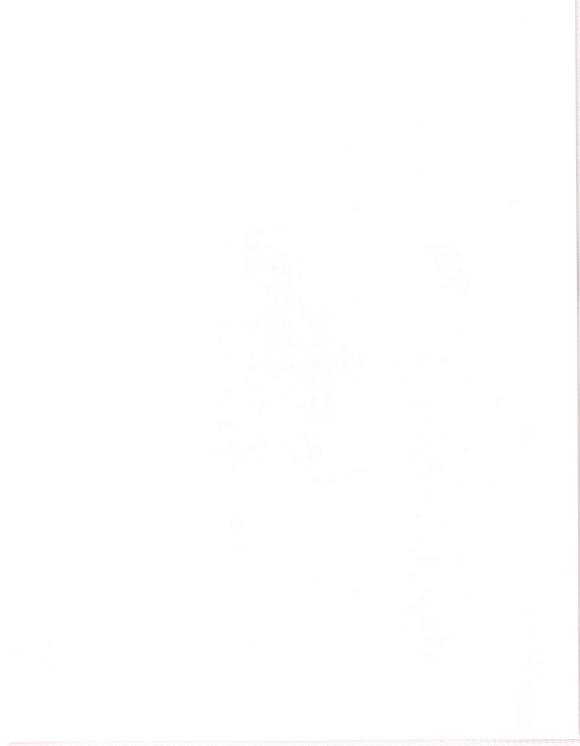
On the Web

The tapes chronicling the World Wide Web's content can be seen at

http://www.alexa.com

lapes

By touching the surface of a screen, the viewer can hold the image for 5 seconds, long chough to read a bit of what it's about but not long enough to take much of a note. Then the next random images flash



DAILY NEWSPAPER
BILLINGS GAZETTE
BIHINGS, MT

Circ - (M) 49,719 (S) 56,299

OCTOBER 14, 1998

Baconis

Syberspace sculpture lonated by artist to congressional library

WASHINGTON (AP) — Four bright red computr monitors, bolted together and flashing information to fast to read, are the Library of Congress first piece

*ure for the computer age

ough it's a kind of museum, the library doesn't ollect statues. Instead, it collects books — the world's toggest collection — plus maps, photos, films and rarities ke the first printed Bible.

Forty-four tapes lined up alongside the monitors ontain the entire contents of the World Wide Web in the months of January and February 1997 — two tersbytes of material. The sculpture is just for show, a symbol of the library's role as a collector of cyberdata.

Anyone can see the tapes' content without charge rom one of the library's public terminals or through the nternet, said associate librarian Winston Tabb

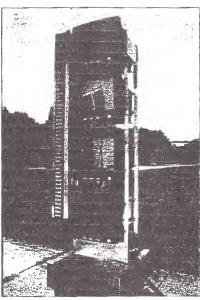
Just as the library carefully keeps its first books from Thomas Jefferson's own collection, it is working on plans

o hold onto essentials from the Web.

But it can't keep everything. It's trying to figure out
what people will need, estimating that the Web now contains 320 million pages and will grow to a billion by the

vear 2000.
"Every week, 1 percent of all Web pages are removed or changed," said Robert Zich, coordinator of the library's Digital Library Program. "But some of them are there just as they were in 1994 when we first started."

A terabyte of data is roughly equal to 1.000 copies of the Encyclopedia Brittanica, said Brewster Kahle, the president of Alexa Internet, which donated the sculpture.



Associated Press

A sculpture featuring four monitors was presented to the Library of Congress Tuesday.

Kahle pointed out that little has been preserved of the first radio and TV programs, and historians would like to have them now.

The monitors in the sculpture show only a sample of what is on the tapes.



DAILY MEWSPAPER PRESS & SUM - BULLETIN AY - D655

Circ - rM: 67.303 (S) 85,518

OCTOBER 14, 1998

Bacon's

Library of Congress works to preserve history of Internet

Sculpture serves cyberdata Meb symbol

ASSOCIATED PRESS

WASHINGTON - Four ulted together and flashing nght red computer monitors, " iformation too fast to read, or st piece of scuipture for the Te the Library of Congress

omputer age.

Dipplied age.

Although it's a kind of Euseum, the library doesn't Called status frequent income. offect statues. Instead, it col-

ggest collection - plus Forty-four tapes lined up cts books - the world's ips. photos, films and rariongside the monitors conorld Wide Web in the onths of January and Feb-ary 1997 — two terabytes material. The sculpture is si for show, a symbol of the as like the first printed Bible in the entire contents of the

Anyone can see the tapes. content without charge from one of the library's public terminals or through the Internet, said associate librarian Winston Tabb

lection, it is working on plans to hold onto essentials from Just as the library carefully keeps its first books from Thomas Jefferson's own colhe Web

But it can't keep everything. It's trying to figure out what people will need, estimating hat the Webnow contains 320 million pages and will grow to a billion by the year 2000.

"Every week one percent of all Webpages are removed or changed said Robert Zich, coordinator of the library's Digital Library Pro-gram "But some of them are

equal to 1,000 copies of the A terabyte of data is roughly

ran s role as a collector of

http://www.alexa.com

cent of all Web pages ROBERT ZICH DISITAL LIBRARY PROGRAM COO-PDINATOR Encyclopedia Britannica, said Brewster Kahle, the president Alexa Internet, which Every week one perare removed or changed

and historians would like to Kahle pointed out that litfirst radio and TV programs. tle has been preserved of the donated the sculpture. have them now.

a screen, the viewer can hold what it's about but not long The tapes can be seen at By touching the surface of long enough to read a bit of Then the next random images the image for five seconds. enough to take much of a note flash on and disappear

Computer makers think small LAKE BUENA VISTA. Fla. (AP) — The personal computer is about to get far machine should shrink to the size of a shoebox within four rears, an industry research lirm predicts. Ву 2002, more panel displays, which are sharper than most traditional tikely result from an ongoing than one-third of new com-Futuristic-looking computingly more powerful ones, will upmanship between nival manufacturers, the Gartner Group puters will sport sleek flat game of technological oneers, not to mention screech slimmer -- and friendher. bulky montors. Stanting arrestmentionen

ASSUCIATED PRESS The first piece of sculpture for the computer age was presented to the Congressional Library Tuesday.

While computers grow pro-

annual computer symposium. gressively faster and cheaper

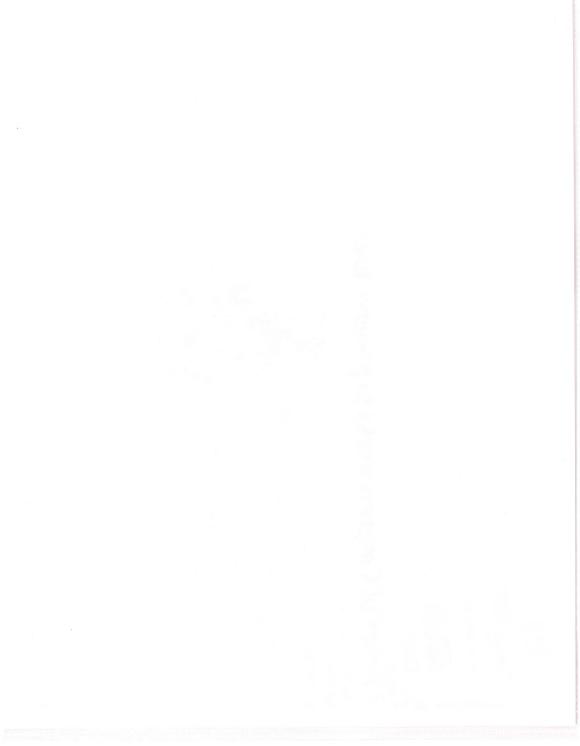
selves have appeared pretty ike -- has consumed our desktop space and even concourse, the machines themmuch the same. For most of us, the traditional look — boxounded some designers Foday's bulky desktop

attempts to make offices

warmer and less cluttered.

Advances are pushing down prices of flat-panel screens hat should make it a comrelling purchase for many ousinesses and consumers in ust a few years: in addition o saving lots of desk space. lat-panel images, which usc uquid crystal, appear crisper and more vivid and reduce eyestrain for computer users

makers to shrink the comnuter hox itself.



NJ-0120

Chrc - (E) 16,999 (S) 23,643

514 OCTOBER 14, 1998

Bacon's

Syberspace sculpture makes debut

WASHINGTON (AP) - Four bolted together and flashing inforright red computer monitors,

mation too fast to read, are the Library of Congress' first piece of sculpture for the computer age.



sculpture was presented to th Congressional Library as th 4.P pbu first art piece for the compute CYBERSCULPTURE -

Kahle, the president of Alexa In clopedia Brittanica, said Brews'e ternet, which donated the sculp

Kahle pointed out that little has been preserved of the first radio and TV programs and historian would like to hove them now price.

In the sculpture show only a sample of what is or The monit

world's biggest collection - plus maps photos, films and raribes Although it's a kind of museum, the library doesn't collect statues. Instead, it collects books — the

and the Authorite Service Service

material. The sculpture is just for show: a symbol of the library's Forty-four tapes lined up alongside the monitors contain the en-lire contents of the World Wide Web in the months of January and February 1997 - two terabytes of tent without charge from one of the library's public terminals or Anyone can see the tapes' conthrough the Internet. said associrole as a collector of cyberdata. ilke the first printed Bible.

ale librarian Winston Tabb.

Just as the library carefully keeps its first books from Thomas Jefferson's own collection, it is working on plans to hold onto essentials from the Web.

trying to figure out what people will need estimating that the Web and will grow to a billion by the But it can t keep everything It's now contains 320 million pages vear 2000.

"Every week I percent of all Web pages are removed or changed." said Robert Zich, coordinator of the library's Digital Library Program "But some of them are there just as they were

A terabyte of data is roughly equal to 1000 conject of the Front in 1994 when we first started "



SPRINGFIELD NEWS - SUN
Springfield, OH

Ctre - (M) 34,500 (S) 42,500

OCTOBER 14, 1998

Bacon's

Library working on Web archive

■ Forty-four tapes contain the entire contents of the World Wide Web in January and February 1997

Associated Press

WASHINGTON — Four bright red computer monitors, bolted together and flashing information too fast to read, are the Library of Congress' first piece of sculpture for the computer age.

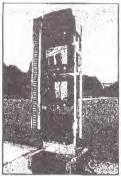
Although it's a kind of museum, the library doesn't collect statues. Instead, it collects books the world's biggest collection plus maps, photos, films and rarittes like the first printed Bable.

Forty-four tapes lined up alongside the monitors contain the entire contents of the World Wide Web in the months of January and February 1997. — two terabytes of material The sculpture is just for show, a symbol of the library's role as a collector of cyberdata.

Anyone can see the tapes' content without charge from one of the library's public terminals or through the Internet, said associate librarian Winston Tabb

Just as the library carefully keeps its first books from Thomas Jefferson's own collection, it is working on plans to hold onto essentials from the Web.

But it can't keep everything, it's trying to figure out what people will need, estimating that the Web now contains 320 million pages and will grow to a billion by



AP photo

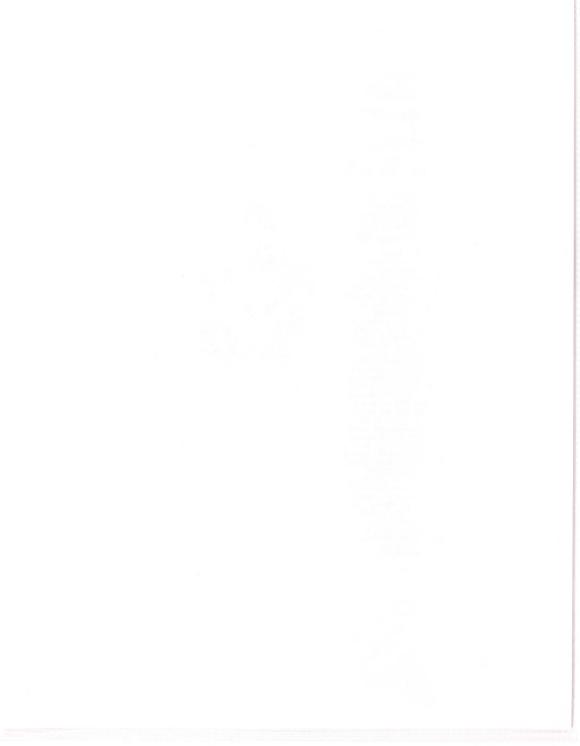
This computer monitor sculpture symbolizes the Library of Congress' role as a collector of cyberdata.

the year 2000.

"Every week I percent of all Web pages are removed or changed," swid Robert Zich, coordinator of the library's Digital Library Program. "But some of them are there just as they were in 1994 when we first started."

A terabyte of data is roughly equal to 1,000 copies of the Encyclopedia Brittanica, said Brewster Knible, president of Alexa Internet, which donated the sculpture.

The tapes can be seen at http://www.alexa.com



SURE THE WEB - SHAPE THE WEB

IT'S THAT EASY AND YOU'LL EARN SOME CASH!

News



CLICK HERE NOW

baseball trivia «win grand prize



News Business

Sports

Local News

Technology

Living •Travel Health

On Air

Opinions Weather

MSN.COM

Web shrine at Library of Congress

Entire contents of Web over two months part of exhibit

ASSOCIATED PRESS

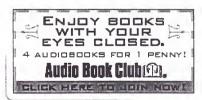
WASHINGTON, Oct. 13 — Four bright red computer monitors, bolted together and flashing information too fast to read, are the Library of Congress' first piece of sculpture for the computer age. The sculpture is just for show, a symbol of the library's role as a collector of cyberdata.

COMPLETE STORY -

LINKS, SITES & MEDIA

MSNEC not responsible for content of Internet links INTERNET Library of Congress Home Page

ADVERTISING ON MSNBC





The Library of Congress is trying to figure out what people will need, estimating that the Web now contains 320 million pages and will grow to a billion by the year 2000

ALTHOUGH IT'S A kind of museum, the library doesn't collect statues. Instead, it collects books — the world's biggest collection — plus maps, photos, films and rarities like the first printed Bible.

Forty-four tapes lined up alongside the monitors contain the entire contents of the World Wide Web in the months of January and February 1997 — two terabytes of material.

Anyone can see the tapes' content without charge from one of the library's public terminals or through the Internet, said associate librarian Winston Tabb. Just as the library carefully keeps its first books from Thomas Jefferson's own collection, it is working on plans to hold onto essentials from the Web.

But it can't keep everything. It's trying to figure out what people will need, estimating that the Web now contains 320 million pages and will grow to a billion by the year 2000.

"Every week, I percent of all Web pages are removed or changed," said Robert Zich, coordinator of the library's Digital Library Program. "But some of them are there just as they were in 1994 when we first started."

A terabyte of data is roughly equal to 1,000 copies of the Encyclopedia Britannica, said Brewster Kahle, the president of Alexa Internet, which donated the sculpture.

Kahle pointed out that little has been preserved of the first radio and TV programs, and historians would like to have them now.

The monitors in the sculpture show only a sample of what is on the

By touching the surface of a screen, the viewer can hold the image for five seconds, long enough to read a bit of what it's about but not long enough to take much of a note. Then the next random images flash on and disappear.

The tapes can be seen at http://www.alexa.com

© 1998 Associated Press. All rights reserved. This material may not be published, broadcast, rewritten or redistributed.



















Cover | Quick News | News | Business | Sports | Local News | Technology | Living & Travel | Health On Air | Opinions | Weather | MSN | Comics | Find | About MSNBC | Help | Index | Cool Tools Write Us | Advertising on MSNBC | Terms, Conditions, and Privacy



Circ-(M) 204,376 (S) 297,758

OCTOBER 14, 1998

Web Sculpted Into Art Bacon's

At Congressional Library

tents of the World Wide Web in January and February 1997 -- two terabytes of malerial. The sculpture is just for show, a symbol of the library's role as a collector of Anyone can see the cyber-data. flashing information too fast to read, are the Library of Consers' first piece of sculpture for the come WASHINGTON (AP)
-- Four bright red computer monitors, bolted together and

puter age. Although it's a kind statues. Instead, it collects books the world's biggest collecflon — plus maps, photos, films and rarlles such as the first of museum, the li-brary doesn't collect

printed Bible. Forty-four digital side the monitors contapes lined up along.

erything. It's trying to the figure out what people the will need, estimating that the Web contains that the web contains the 320 million pages and will grow to a billion by 2000.

"Every week 1 percent of all Web pages

Zich, coordinator of the library's Digital Library Program. "But some of them are changed," said Robert from the library's pub-lic terminals or through the Internet content free Just as the library first books from at www.alexa.com. carefully keeps

there just as they were in 1994 when we first started." A terabyte of data is roughly equal to 1,000 pedia Brittanica, said copies of the Encyclopresident of Alexa In-Brewster Kahle, Thomas Jefferson's collection, it is working on plans to hold But it can't keep evonto essentials from

the Web.

ternet, which donated the sculpture.

grams, and historians would like to have Kahle said that little has been saved of the first radio and TV prolike to have that information.

The monitors in the sculpture show only a sample of what is on the tapes.

or

are removed

tapes,

seconds, long enough to read a bit of what it's about but not long By touching the screen, the viewer can nold the image for five of a note. Then the next random images flash on and disapenough to take rauch Dear.

un adad



AHUNA

Download Mania

It is, of course, all quite mad. I spend hours downloading liles. You too? There must be a better way. And thore is! To make those files download (aster, lirst . . , download those files. They're shareware programs that lot you download still more files—only quickor, so you have more time to download even more files. I told you, it's all quite mad!

I Know Where You Live

मैंसेमें Ever noticed how you can never find a traditional phone number on a Web site? Stands to reason. Businesses don't want you to call. They spend thousands of dollars on mulumedia Web sites in the hopes that consumers will find the answers to their questions online and not bother with whiny phone calls. Well, the phonophobes have met their match in Alexa. It's a jounty bulle toolbar that sus for free at the bottom of your screen and spills the secrets of any site you visit. It not only gives you the name and phone number of the company that registered the domain name, it also provides the address and a map to facil itate laser-controlled bombing. Vote if you like a site or not and find out how other Alexa users have voted. And if

REGETFULLY YOURS

ជាជាជាជា You're about to fall asleep halfway through downloading a file the size of Wisconsin. Screw It! You need some sleep, so let the download finish by itself, I don't have to tell you that the next morning you'll find that you lost your Net connection about two bytes short of getting the whole file. What you need, pilgrim, is ReGet. It works with most browsers and HTTP or FTP servers. ReGet places a helpful addition on

your browser's right-click menu to lot ReGet do the downloading. ReGet puts the file into a queue and automatically restores brokon connections and linishes interrupted downloads. This is the only way I'm downloading from now on. I'd give it 10 stars if my editor would let me. ReCet

that page you bookmarked long ago is now missing in action, check Alexa's Archive of the Web, with a half million sites saved from the grave.

Children of the Night 台会会 NetVampire is an automated downloading program

that helps with really flaky connections. It adds in detailed communications logs that are helpful when you encounter particularly recalcurant connections—especially handy for those files that browsers mysteriously balk at downloading. NotVampire 2 41

Your Servant

AAA If you are seriously into record keeping-to the point that you're and-compulsive or the guy in charge of expense accounts-take a look at Download Butler, Your \$29.95 gets you scheduling, a simple database to keep track of downloads, and prowling of the top

WWW PERGMENTING COM

COPERNIC 98PLUS

효효화 Hold it! You can't start downloading until you have something to download. What you need is a program that can search Yahoo, HotBot, and a whole bunch of other search engines. A program that has 17 predefined groups of search engines to concentrate your panning in the most likely areas. A program that lets you define search groups. Uh-oh, Copernic 98plus just flunked. It does all those other neat searches, but you can't add to the sets. Also, the collections aren't as successful as you'd think. Download and you've got 30 days to decide if it's worth \$30. Or download the free non-Plus version, with fewer search engines. Coperac 98plus











OCTOBER 1998



DESIDE 10/15/98

Gambits

Sex sells

Text by Tish Williams

hen Rakesh Mathur CEO of Junglee Corp shoped into a little black dress for a photo spread on Upside com we thought we were just having a little fun at the expense

of Katrina Garnett CEO of CrossWorlds Software Inc. Apparently sex really does sell though. because the next week Amazon com inc. picked up Junglee for 1.6 million shares of Amazon com stockvalued at \$187 million at the time of the August deal, Imagine the outcome if Mathur had worn pearls!

Junglee's Rakesh Mathur

(above; has decided that

acquisitions are a girl's

Upside publisher David Bunnell and

for her controversial book. At a July dinner hosted by digital let-setters John Perry Barlow and John Brockman, and Brockman's son. Max. at San Francisco's Hunan Restaurant-and which ieatured a cast of characters including Daniel Ellsberg of Pentagon Papers fame, Alexa Internet CEO Brewster Kahle and New York Times tech

dearest Text by Tish Williams, photos by Victoria Yee columnist Denise Caruso-Edstrom caught the ear of New York Times reporter John Markoff. After the pair had exchanged niceties and Ed-

Microsoft,

strom had updated Markoff on her relationship with her mother (and just as everyone was beginning to get comfy), she asked him why the paper hadn't covered her book. A sheepish Markoff tood the ground as he defended his employer by reminding Edstrom that the paper had

indeed reviewed her book. Edstrom refused to back down. however, pressing Markoff to explain why he hadn't personally covered it. Again. Markoff was ready with an answer: Once the book hit the gossip columns, he said. it ceased to be a news story.

"You sound just like my mother," Edstrom said as Markoff shifted his weight to his other foot

A chip off the old block? I wouldn't say that without ducking.

hrow telcos to

Text and photos by Tish Williams

hile harried phone companies are body-slamming legislators and merging like mad, new entrants to the telephony market are all smiles, David House, CEO of Bay Networks Inc., John Roth, CEO of Northern Telefrom Ltd. (which is acquiring (ay); and Eric Schmidt, CEO of Novell Inc. (brought in for ntertainment value), spoke



at Silicon Vailev's Churchill Club in July about life as "Netheads."

House explained the carefree new world of nextgeneration telcos, such as Level 3 Communications Inc., with its fiber networks and junk-bond financing. Meanwhile, his acquisition.

partner, Roth, beamed about the possibilities.

Nonel has been servicing



a business that's been growing at 3 percent a year," Roth said of his

tomers. "Now we're underpinning an industry that grows 30 percent to 40 percent a year. That's a lot more fun.

We bet it is.



ennife: Edstrom, daughter of Microsoft Corp. PR chief Pam Edstroin and author of Barbanans Led by Bill Gaies (Henry Holi & Co. 1998), is engaged in a grassroots PR campaign to get press



Jennifer Edstrom swap Gates stories.





설

MAGAZINE

ROLL CALL Mashiripton DC

OCTOBER 15, 1998 E. - Weekly

896 5.00388

Internet Intelligentsia

cause for celebration. Campaign dirt-diggers have

son Building on Tuesday. a ceremony at the Thomas Jefferdonated two terabytes of Web content to the Library of Congress at free Web navigation service Alexa. "World Wide Web 1997" is an Alexa Internet provider of the net Archive, which stores Web conic purposes. tent every two months for academ

pages from the 500,000 sites gathcomputer monitors that flash taining 44 digital tapes next to four interactive digital sculpture con-Fundraiser Barry's Farewel

will throw himself a bon voyage D.C. Mayor Manon Barry (D)

America's digital heritage, Alexa ered and stored by Alexa Internet

Part of a new trend of preserving

ment Given that Web sites change Interpret provides a snapshot of what Web on a continual basis to Inter-Alexa Internet donates a copy of the lost if not stored in some manner. material on the Internet would be constantly and expire, much of the the Web contains at a specific mo-Oct, 22, at 7:30 p.m. Friends of Marreitrement fund for Barry. for the \$700,000 event will go to a all ticket proceeds left after paying is actually organizing the event, but ion Barry, a group of private critizens bash at the MCI Center on Thursday. Maya Angelou and Boyz II Men

group touts Jerry Butler. Lou Gosthrough the MCI Center at (202) like to attend can purchase tickets ed guests. Anyone else who would BET-TV Hip Hop Choir as invitsen Jr., the Temptations and the headline the gala, and the Barry

celebrity contact is rationed by do-Like a campaign fundraiser

> a \$99 "Legacy" ticket will buy the and "Tribute" tickets are \$50, but as the MCI Center. gala reception at the Velocity Grill bearer entry into a 5:30 p.m. prepaid. "Champion" seats are \$25 nations, or, in this case, ticket price For more information on the

point your Web browser to tribute, call (202) 678-2100 or Advantage Home Court www.barrytribute.com

bacco and Firearms declined to After the Bureau of Alcohol, To-

> sought to move the agency to transportation and infrastructure, chairman of the Environment and take root at the Southeast Federal Northern Virginia. Public Works subcommittee on Center, Sen. John Warner (R-Va.),

2,500 linear feet of an existing metrostation in Northern Virginia." D.C.) pleaded her case last Friday passed an amendment to keep the won - sort of. The committee ing federal jobs in the District, and frastructure Committee for retainto the House Transportation and Inagency in either D.C. or 'within Del. Eleanor Holmes Norton (D-

- Stacey Zolt



10/18/98

cyberspace sculpture produces the fire

By The Associated Press

WASHINGTON — Four bright red computer monitors, bolted to gether and flashing information too the computer age. gress' first piece of sculpture for fast to read, are the Library of Con Although it's a kind of museum

Forty-four tapes lined up along-side the monitors contain the entire the first printed Bible. maps, photos, films and rarities like world's biggest collection - plus instead, it collects books - the the library doesn't collect statues

ary 1997 - two terabytes of materi contents of the World Wide Web in the months of January and Febru The sculpture is just for show, a

through the Internet, said associate tent without charge from one of the collector of cyberdata, symbol of the library's role as a ibrarian Winston Tabb. ibrary's public terminals or Anyone can see the tapes' con

working on plans to hold onto es sentials from the Web. Jefferson's own collection, it is keeps its first books from Thomas Just as the library carefully

But it can't keep everything. It's

2000 now contains 320 million pages and trying to figure out what people will need, estimating that the Web will grow to a billion by the year

Web pages are removed or changed," said Robert Zich, coordiwhen we first started." are there just as they were in 1994 brary Program. "But some of them nator of the library's Digital Li "Every week 1 percent of all terabyte of data is roughly

the tapes. show only a sample of what is on would like to have them now. been preserved of the first radio and TV programs, and historians The monitors in the sculpture Kahle pointed out that little has

on and disappear. Then the next random images flash read a bit of what it's about but not long enough to take much of a note age for five seconds, long enough to

WWW.alexa.com The tapes can seen at



The library features the first piece of sculpture for the computer age Associated Pre







Pastners Newsweek.com Britannica-Newsweek Internet Guide

▼ Related Items

Print Edition

Business Articles
Monday's
Washington
Business Articles
Front Page Articles

On Our Site

Stocks Page Business



BYTES

Monday, October 19, 1998; Page F05

Growth Spurts

Virginia is home to 26 of the 500 fastest-growing private companies in the nation, according to a survey conducted by Inc. Magazine. Only California (83), Texas (44) and Massachusetts (31) had more companies on the list. Virginia edged out New York (24), which finished fifth.

Computers and business service companies were the most heavily represented in the survey, comprising 57 percent of the firms listed, followed by consumer goods and services (12 percent) and telecommunications (7 percent).

QSS Group, a Lanham technology support services company, was the highest-ranked Washington-area company on the list, finishing 11th. McLean technology consultant RS Information Systems finished 41st, Proxicom Inc. of Reston finished 44th and InfoPro of Silver Spring finished 45th.

Library Building

Virtually speaking, the Library of Congress just added a new wing.

Alexa Internet, a San Francisco-based Web navigation service, has donated two terabytes (2 trillion characters) of "digital materials" to the library in an effort to preserve a slice of Web history. The donation includes scads of Internet content that is displayed in an "interactive digital sculpture," a physical structure containing 44 digital tapes and four computer monitors that library visitors can see.

Titled "World Wide Web 1997: 2 terabytes in 63 inches," the sculpture resembles a bright red British-style telephone booth made out of Etch-a-Sketches. It intermittently displays pages from 500,000 sites that Alexa has archived.

This creates a moment-in-time snapshot of the World Wide Web circa 1997. It is part of the Library of Congress's ongoing "National Digital Library Program," which makes rare American historical documents available on the Internet.



Page 58 20: DNG Hamilton Workscom Sel-6701



Addicted to Advertising

Online ads are popping up everywhere. By Susan Kuchinskas

irst, we have to ask, "Would you be interested in finding out more about the new Lexus?" We have to ask because we're now selling demographically targeted, contextual ad placements in IQ News. No, no, we're just kidding, we're not doing that ... yet.

Of course, if this were a Web site, it might be different. Bored with banners, jaded by interstitials—and still hungry for cash—Web publishers,



like Manhattan real estate moguls selling the air rights above their buildings, are looking for new kinds of real estate. True to form, a gaggle of spunky technology companies are enabling the industry's ad addiction.

In mid-1997, pop-up ads began, well, popping up, obscuring the screen until the (often-frustrated) Web site visitor clicked the window closed. GeoCities came under fire from members for placing them on members' free homepages, though the intrusion could be avoided by paying \$4.95 per month. After initial conplaint, the public seems to have thrown up its mouse-hands, because pop-ups are now springing

up all over, including *The New York Times*' Web site and Netscape's Netcenter portal. In fact, says Tony Nethercutt, regional sales manager for DoubleClick, San Mateo, Calif., pop-up ads work. "We've found that a pop-up can increase click-through dramatically." he says.

For example, on one entertainment site represented by DoubleClick, a banner did .7 percent click-through, while the pop-up achieved 3 percent. "Same page, basically same creative," he says, explaining with a bit of understatement that, "It's an enhanced creative. It's something that jumps out at you a little bit."

Most innovative ad models are stealthier, beguiling the user into voluntarily downloading the ad-serving mechanism as part of a desired application. Alexa Internet, San Francisco, Calif., was an early player, launching its free navigational service in July of 1997. It's a tool bar with an ad window that starts up when a browser is launched, and, like a pushy party guest, lingers after the browser is closed, serving cached ads until you click it shut. Alexa pays for eyeball time by giving the user information about each site visited including "What's Related?," a list of the top 10 sites other registered Alexa users visited next.

One of Alexa's key sales points is that the company can place ads concurrent with sites that do not include advertising, such as government or academic sites. In effect, this allows the company to serve ads to formerly ad-free environments, though this only happens when the Alexa toolbar is on.

In August of this year, Alexa inked a deal with Netscape, Mountain View, Calif., to provide its What's Related? service for Netcenter Smart Browsing, a set of enhanced features for the Netscape 4.5 browser. In this case, the top two items on the list are paid placements. They're separated from the true Alexa links by a tasteful

W1002



gray line.

On October 5 at Fall Internet World in New York, New York-based Robocast introduced an automated Net surfer called Roboplayer. The free application lets users create a bookmark-like list of links which is displayed on a special window adjacent to the browser window. On the top is a small banner ad. The product benefit is that the app will automatically sequence through the links in any order and at any speed set by the user. It's like watching a slide show where the user can stop, pause, rewind and skip.

The catch is, every fifth screen is an ad instead of a Web page. Yes, these ads can be as interactive as any other. And, advertisers will no doubt be happy the Roboplayer client application

tracks the entire session and reports the user's activities back to the Robocast server.

Say you typed a keyword into a search engine and got back a results screen with 10 links. You could pull this list of links into the Roboplayer so that you could skim them as they played automatically instead of clicking one, reviewing the site, hitting the back button, clicking the next, etc. If you did this, you'd be trying to ignore ads served by Robocaster instead of those that would have been served by the search engine.

Yes, says Robocast CEO Damon Torres, in such a case his service would be indeed pulling

eyeballs away from the search service. Possibly because he's a nice guy, possibly because he doesn't want to start a war, Torres says he wants to do deals with search engines to serve those ads for them. "We wrung our hands about that," he says, "to find a solution which might

be symbiotic."

Torres says that his company's full-page rich media ads can make up in quality what search engines would lose in quantity. To prove his sin-

cerity, he's hired Kirk Woerner, former vice president of technology for ad network 247 Media, New York, as vice president of ad technology to make sure Robocast delivers.

The technology is also being sold as Robocaster to publishers who want to automate navigation through their sites. American Express Publishing Corporation, New York, has signed on to introduce Robocast-enabled versions of Travel & Leisure and Food & Wine, with a cobranded, downloadable Roboplayer. Nissan Motor Corps/Infiniti USA division, Gardena, Calif., and Crystal Cruises, Los Angeles, Calif., have developed rich media ads especially for the publications.

Also at Internet World, CyDoor Technologies,

"We've found

that a pop-up

Tad1 can increase

click-through

dramatically,"

says

DoubleClick's

Nethercutt.

Tel Aviv, Israel, made the U.S. introduction of an application to sell ads on software that accesses the Internet. The company demonstrated the program running on Disconnector, a product from PixieSoft, Bney-Brak, Israel, which automatically closes the Internet connection so that users don't have to wait by the computer for long downloads to finish. Software developers who sign up with CyDoor receive a small monthly payment for every user. CyDoor sells and serves the ads, target-

sens and serves the ads, targeting them through IP address analysis, user profiles and analysis of the clickstream. When the user activates the program, ads are downloaded in the background and eached to run simultaneously with the program as long as it's open.

But it remains an open question as to whether the public will accept ever more encroaching ads. Says Doug Hansen, director of sales for Alexa Internet, the companies who offer the right things to users will succeed. "I think the ones that survive will be those which provide useful, relevant information or tools," he says. "If they're not related to what you're doing on the Internet, they distract from, rather than add to your experience."

When you think about all this new online ad real estate up for grabs, doesn't it make you want to enjoy a nice cold Coca-Cola? ■

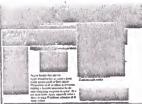
Alexa's gray

"What's Related?"

box lists sites

which pay for

placement first.



The Washington Post

DIGITAL FLUB

Irish Eyes Aren't Smiling

Motoriets in Dublin set through horrendous hackups during a Monday morning rush hour last month after traffic lights at 140 intersections were accidentally disconnected from a computerized control system, the Irish Times newspaper reported.

Effectively put on autopilot, traffic lights at major arteries into the city center flashed red and green based on predetermined sequences that took no account of traffic volume.

The Sept. 28 failure occurred as technicians were working to switch city traffic lights over from an older control system to a new one. Tie-ups continued as lights were reconnected to central control.

AVTES

Growth Spurts

Virginia is home to 26 of the 500 fastest-growing private companies in the nation, according to a survey conducted by Inc. Magazine. Only California (83), Texas (44) and Massachusetts (31) had more companies on the list Virginia edged out New York (24), which finished fifth.

Computers and business service companies were the most heavily represented in the survey, comprising 57 percent of the firms listed, followed by consumer goods and services (12 percent) and (clecommunications (7 percent).

QSS Group, a Lanham technology support services company, was the highest-ranked Washington area company on the list, finishing 11th, McLean technology consultant RS Information Systems finished 41st, Provident Inc. Spring finished 45th.

Library Building

Virtually speaking, the Library of Congress just added a new wing.

Alexa Internet, a San Francisco-based Web navigation service, has donated two terabytes (2 library in an effort to preserve a slice of Web history. The donation

includes scads of Internet content that le displayed in an "interactive digital sculpture," a physical structure containing 44 digital tapes and four computer monitors that library visitors can see.

Titled "World Wide Web 1997: 2 terabytes in 63 inches," the sculpture resembles a bright red British-etyle telephone booth made out of Etch-e-Sketches. It intermittently displays pages from 500,000 sites that Alexa has archived.

This creates a moment-in-time snapshot of the World Wide Web circa 1997. It is part of the Library of Congress's ongoing 'National Digital Library Program," which makes rare American historical documents available on



The Search Search Goes On

BY DON BARKER

he Internet has become so large and disorganized that finding anything is often a matter of luck. More than 320 million pages exist on the Web. That number will double over the next six to 12 months. Even the most powerful search engines only cover a third of those pages, as Mark Frauenfelder points out in "The Future of Search Engines" (Sept. 28).

Frauenfelder describes three tools that can help navigate this massive information overload – Google, Direct Hit and Clever. Such search systems measure the oppularity of Web pages to determine those likely to contain information

relevant to your search. Netscape also plans to include a similar service called What's Related (from Alexa) in Communicator 4.5.

Although popularity-based systems may provide useful inks, they fail to deliver comprehensive results. What's worse, they don't attempt to solve another growing problem—the trend of putting the most valuable information on the Net into databases. Because search engines crawl the Web, the content in a database is not indexed and, thus, is not available for searches.

Popularity-oriented search systems offer no guidance for Web shoppers. E-commerce has become a billion-dollar industry, but according to Zona Research, many Web shoppers can't locate a specific product. In fact, Zona's study says that 6a percent of Web shoppers gave up looking for items online.

To overcome the inadequacies of individual search engines, 77 percent of users use more than one search engine to locate information, according to NPD Online Research. This makes sense; Combining search engines can increase coverage by as much as three and a half times, Metasearch tools,



or bots, make it possible to simultaneously query multiple search engines from a single interface, which explains why so many are suddenly appearing on the scene

Products like BullsEye from IntelliSeek take the metasearch process a step further by using intelligent agents to query databases on the Net that are not indexed by search engines. These intelligent agents provide information that would normally require time-consuming visits to each database site. This new breed of search tool also gives you enhanced query and analysis capabilities.

For instance, Mata Hari 2.20 from WebTools supports a full range of Boolean operators for composing structured search statements that elicit the proper information. These smart metasearch programs come with statistical analysis tools to help you quickly identify the most useful information.

Analytical techniques range from the simple scoring of multiengine search results pased on keyword relevance to the apphisticated grouping of results by hidden concepts and similarities. BullsEye Pro includes a tracking system that auto-

matically detects updates on the Net and alerts you.

Other metasearch tools include WebFerret Pro from FerretSoft and Copernic g8plus from Agents Technologies. Like BullsEye and Mata Hari, they support simultaneous querying of multiple search engines using Boolean expressions.

Despite improvements, searching is still a daunting task. The lack of a uniform data structure makes it impossible for search engines to properly index data, which cripples the performance of even the smartest metasearch tools. Yet there's hope in sight,

The W3C (World Wide Web Consortum) recently endorsed a new universal data structure called XML (Extensible Markup Language). XML separates data from browser display information and organizes it into tree-like hierarchies. These hierarchical files use custom tags to identify data and make it easy to correctly index content.

XML has already galned critical support. Microsoft and Netscape have promised XML-compiliance with their next browser releases, and web toolmakers are rushing to introduce XML development tools. Nonetheless, widespread adoption of this format will take time, as Web site developers learn to implement it.

In the meantime, the growth and complexity of the Web will continue to overwhelm search engines. Advances in smart metasearch tools and intelligent agents will, no doubt, improve your odds of finding the information you want; however, you'll have to wait until a structured data standard, like XML, is widely adopted before searching becomes simple, fast and accurate.

Don Barker Is senior editor at PC Al Magazine and a columnist for BotSpot. You can reach him at don@donbarker.com.

not following the rubots exclusion standard that some Web sites have discovered Alexa From Its Browser Companion," page 43] is Internet ("Alexa Bulks Up To Field Queries

INTERNET WORLD Ren York, NY

Cerc - 98,947

Weekly

OCTOBER 19, 1998

S.UDJEB

REPLY TO ALL An Unfortunate Time To Be 'Deconstructed' We reported such a

chains, allowing Prapod to show the exact electronic connections to five major grocery great Welt design. In our case, it includes (1) merce company involves a lot more than designed competitor could "overwhelm" us Windows 95-based thin client software within their Web Iyowsers or download our on Sept. 30 allows our customers to shop pod." Oct 5 page 78| Our new site, released were reconstructing it [*Deconstructing Pea-If seam you laternet World decided to de-construct on Web site at the same time we This may be hore, but running an online-coin Rosenfeld, raises the possibility that a better One of your Deconstructing writers, Louis

nopal issues than technical ones families in a race that involves larger operayou door within a lwo-hour wurdow The Web design is the first of many bigger

ery and routing systems that get orders to price as it appears in the store; and (2) deliv-

Semos Technologist DOUG VAN BEYNER

damab@peapod.com l'empou

mention in her Oct. 5 love-profile of Alexa What reporter Sarab L. Roberts-Witt failed to A Question of Netiquette

such crawling. site (such as our egi-bin and crawling areas of our more than a month ago contact addresses (as problem directly bots.txl. file prohibits directory) where our roing prime time hours. requests per second) duirate (more than 30 page site at a decidedly hostile Alexa robot crawling our word back and never heard a single listed on their Web site) Alexa's technical support We discovered ar

return was silence. We have since banned to Alexa cont. their robot, redirecting their requests back when we informed them of this, all we got in brought our site to a near standstill, yet Their robol's crawling

very sites they are trying to help. have witnessed, they will only alienate the ing Web technologies in the manner we But they need to understand that by abus I'm all for new services such as Alexa

Director and Webmaster johng/@cnshc.com Mensal Health Nei DR. JOHN GROUDI.



in the inessage's subject len sinchide "felter to the Editor sions to letters@ne corr. and to the editor. I mad all schools Title and Marid advances bytan

at work). On occasion I've had to send in technical questions to AOLS (cc) support. me think this tomer's question. Here's what makes I use AOL at home (and a real ISF

say "You never answered my question." a clear question.) The only way I ever get a day at work, so I like to think I can articulate question. (I deal with end-user support at sponse that generally doesn't answer my back with a restatement of the question, and response is to resend AOL's original response No matter what I ask, I get a canned ev Of course, that starts the whole process all

over again—until I give up. Say! Maybe that's what AOL is really trying

ro accumplish JIM STROW

Network Administrator jhstrowe@aot.com

Automated E-mail Support AOL is a Lame Example Of

includes "canned responses" ["Compa dling this function, which as you note cuence to America Online's way of han that come in via c-mall contains a ref respond to customer service inquirtes Oct. 5 Web Development article nies Seck Solutions to E-Mail Phort Your article about the growing need to



Federal Computer Week

civic.com







THE DEPUTY DUO. The Internal Revenue Service this month picked up two new high-level managers it hopes will help the agency carry out its reinvention mandate: deputy commissioner of operations Bob Wenzel and deputy commissioner of modernization John LaFaver.

Wenzel, a former chief operations officer at the IRS, co-chaired a task force that prepared a recent report on reinventing customer service.

LaFaver was secretary of revenue in Kansas, where he created a customer-oriented organizational culture that used state-of-the-art technology to deliver rapid and accurate service to taxpayers. LaFaver also has held the position of revenue commissioner in Maine and Montana.

EC DOES IT. And at the Commerce Department, Secretary William Daley appointed Elliot Maxwell as his new special adviser for electronic commerce.

Maxwell will advise the secretary on how best to fulfill the White House's strategy to increase the use of EC to do business in the so-called emerging digital economy.

In what will be no small task, the White House charged Commerce last year with fostering the use of EC and overseeing seven of 13 EC policy initiatives. Maxwell was previously deputy chief of the Federal Communications Commission's Office of Plans and Policy.

MICRON MUSCLES. Micron Federal is beefing up its outside sales team to compete with the more than 40 pavement pounders that Dell has working the federal agencies. Harry Heisler, the head of federal business for Micron, has picked Tony Colangelo, most recently of Nexar, to direct the growing federal outside sales team.



Mail questions to webmaster@fcw.com
Copyright 1998 FCW Government Technology Group

News

· This Week's News

Special Reports

- · Seat Management
- Top 10 Computer
- Systems
- · Peacekeeping in the Pacific
- Federal 100
- Federal Nets
- Virtual

Government

IT Focus

- CIOs
- IT Contracts
- **Database**
- · IT Shops
- Procurement

Search

- By Keyword
- · By Issue Date

Networks

- Agenda
- Jobs
- · Peer Groups
- Training

Test Center

· Take the Tour

Contacts

- · Reporters
- · Subscriptions (13)
- Directions
- · Media Information



Click here

Federal Computer Wee

OCTOBER 19, 1998

Intercepts

By FCW Staff

THINKING MACHINES. The Defense Information Systems Agency does not fare especially well in the General Accounting Office's recent report on multiple-award contracts.

Through fiscal 1997, according to GAO, DISA received only one bid for about 44 percent of the task orders placed against its vehicles. Nothing new here. Vendors have complained before that DEIS I and II task orders, for example, tended to gravitate toward incumbent contractors, discouraging potential challengers from going through the effort of submitting a bid.

But the situation may not get any better. GAO reports that DISA has no plans to make it a policy to notify contractors about potential opportunities. Furthermore, DISA apparently has decided that program officials may rely exclusively on an analytic tool to select contractors, based on information about past performance, cost and other data. Talk about high-tech contracting. Some vendors may wish DISA also had instant replay.

DIGITAL OVERLOAD. The Library of Congress last week unveiled a gift that is designed to provide library users with a complete snapshot of the World Wide Web. The gift, a digital sculpture rendered by Alan Rath and presented by the Alexa Internet Web navigation service, contains every page that went live on the Web during January and February last year, all being stored in a 2-terabyte database. The images are plucked randomly from the database and flashed on the tall bank of four computer monitors stacked one on top of the other.

For those who must know, yes, the artist captured all images, including those that appeared on pornographic Web pages. But at one image per second, those with prurient interests might want to just stick to the Starr renort

26/4/01

(Mud ford , OR) May Tribune

からからからして

100

next-step search

By MARGOT WILLIAMS he Washington Post

feels close to the truth. information to handle, the analogy fail by retrieving too much picture. But when search engines on the floor. That's not a pretty with all the books dumped compared with a library resources are often he Internet's vast

As Halloween coatumest and decore

DEN ASTRUBIN SIONES, THOSE

for the great library of Alexandria Egypt, that was destroyed by fire in Alexa (www.alexa.com), named the third

information the body of both preserve unique effort to century, is a domain's registration date and phone contact number, the

countless pages where the Internet contained in

> site ranks in terms of Web visitors other information - like how the

navigating its random paths to provide intelligent assistance in NETWORKINGS every day, and are scrapped reviews and the collaborative to it. If available, there are also site pages and how many other sites line its speed, freshness, number of

unformation. that I might try for related recommendations on other sites each site I visit — and offering leeding me site stats — data about bottom of my browser has been Alexa toolbar residing at the During the past six months, an a new site small ad. that changes as I move to ratings of Alexa users

And yes, there's an ad, a very

a "404 Not Found" message when you ask for them. to retrieve dead Web pages - ones reconstruction, Alexa will allow you that's temporarily grayed out, but that used to be there but now yield function returns after some October, When this "archive" will be made active again in There's also a mysterious buttor

Suppose you go to the Dead

just got too plain big to serve back line for work because the archive since early 1996. It's been taken of Web pages that it's been collecting dipping into its 12 trillion byte archive, which contains copies of Alexa pulls off this miracle by

for dead rock stars) and, of course Graveyard, Biography, We'll Find-a-Grave, the Political

Always Remember (the home page Alexa shows me other sites like Imann/dps). When I'm there no longer with us, organized People Server, a site that has

Dead Elvis's Page

Moving on to Biography.com, I

alphabetically (www.city-net.com/ exhaustive information about those

> Biography Channel) with address out who owns this site (the can click on another button to lind Dead Madia Project www.stancing.com/ linearity/chinoninadi Well Always Remember grousst grossy snes cears up to the return yearson.
>
> Dead People Sorvey range the personal lide haranardes. Deod-Eure's Page: www.siphewwifat.byggegat
> Ortind puraboth? "dead mode: authorithe narconauts go the Folda-grave: www.hinusgrave.com
> Political Gravespard: www.traditive.com Bliggraphicom was biography being a light of the lig on Alexa. But what is it? Not exactly quickly. I confess that I am hooked

site directory ... a search engine, not really a Web

assistant, like having a really smart cyberspace in 1996. "It's an Internet Web to record the history of nonprofit Internet Archive of the sticking is surf engine," said friend with you." Francisco. Kahle also founded the Alexa Internet, which has its Brewster Kahle, chief executive of beadquarters in the Presidio in San "The term that seems to be

information on who's behind it and where it's located is collected from and ranked in popularity by Alexa with you and guides your path while Alexa travels out on the Web portals "tired." Portal sites try to I million Web hosts documented according to Kahle. For each of the information that helps them make consumers and business people hold your attention and keep you. deemed surfengines "wired" and magazine's September issue 'information trust decisions Surfing with Alexa gives Trend watchers take note: Wired

than a minute.

such as Yahoo Internet Life and ratings come from Alexa partne Recreational Software Advisor, information. Site reviews and

away from pages on the Web analyzing our clicking on or clic what's worthwhile or worthless decisions that we make about activated next to our browsers users like me and you. When that make Alexa unique comes Alexa anonymously tracks the behind the related links feature But the collective intelligence

unks. in to the compilation of related and the content of Web pages fig Web traffic patterns, link structu future users. It could be called a used in aggregate to help inform choose and the time that we spe recommendation engine. Overal visiting. Then the information is It calculates the paths that we

third party. individual will not be provided t that any information from an follows a privacy policy ensuring identify an individual, Alexa say from information that could The usage paths are separate

service that can be installed in le 1.0 has a version of the full Alexa Smart Browsing, Internet Explo links feature embedded as its Communicator (4.5) has the Alex newest version of Netscape You don't have to buy it. The What's Related" component of The other nice thing about Al-

Explorer 3 running on Windows Communicator 4 or Internet Netscape Navigator 3. You may also download Alexa

usilianis:Qwashpost com Margot Williams' e-mail addre:

official domain name registration

Weekly

ADVERTISING AGE

REN YOUN MY

CALL - 88 315

SEPTEMBER 28 1996

Bacons

Ziff-Davis renames NetBuyer site

Ziff-Davas' newly formed E:-Commerce Group today changes the name and URL of its anyear-old Computer Shopper NetBuyet site to Computer Shopper (www.computerShopper), crusuring a single identity to the Computer Shopper into of the Computer Shopper into other Computer Shopper in

Alexa inks dea with InsWeb

Alexa Ingernet announces to day an advertising agreement with online insurance company his Web Alexa (www.alexa.com) creates a browser plug-in. The Alexa tool bar or toon stays with users as they surf the Web, providing them with site statestics and related links on sites that typically don't earry advertising Terms of the deal were not discharged.

marketing category

Career Central Corp. (www.

Career Central adds

Dell teams with ATET, Excite for Web access

career entral.com) is expanding its category specialities this work with Career (Central for Marketing to complement its Career Central for MBAs and Career

Central for Developers

The new category will target

Dell Computer Corp., is teaming with AT&T Corp. Excite and SBC Communications on Internet services for new Dell PCs.

marketing, product management, advertising public relations, marketing communications, database marketing, direct marketing.

brand management and market research. The service is free for users and costs \$2,955 for compa nies searching with a guarantee of at least five qualified and inter ested candidates.

tom home page (dell.excite.com)

Dell and SBC will offer high-

Widins new Dell ConnectDirect program, Dell will builde Internet service from AT&T World-Net connecting to an Excite cus-

bulletin board

ZDTV features Web ads on

speed access over regular phone lines using special ADSL moderns under a joint marketing

agreement starting early next

Mours A1

ZDTV, an affihate of Ziff-Davis, will demonstrate online ads from online computer store Egghead oon. Every episode of ZDTV's daily TV program "Internet Tonight" will feature parts of the Eggheac com site with hardware of scieware promotions

In related news, ZDTV signed In related news, ZDTV signed an advertising deal with Web auction retail site Onesile Onesile on the sale's ads will feature live online auctions during ZDTV's "Money Machine" TV program, a show about how to manage personal Is.

nances using the Internet. Local, San Francisco, created the interactive ads for Onsale

Purple Moon sets up shop online

Girls site Purple Moon (www.gumlertnon.com) hast week opened the Purple Moon Store, an online store selling merchandase amed at preteen girls Based on the Purple Moon site and adventure series of CD-ROMs, the merchandise includes clothing, watches designed and produced by Fossil, and Day Runner plan-

Purple Moon is also talking to an suppliers, fashion retailers and other companies to broaden its store offerings and create products customized to the characters in the Purple Moon stories

Netscape expands area for women in business

Netscape Communications Corp. boosted its Netcenter

Small Business Channel by adding services and content from Varian, a developer of search and ransaction eighness and swomen's site Worten com: Netcoape SmartShip by Vurran, is a comparison tool to help users reduce shipping costs. Her Business is a new Netcenter area with Women com content.

in other news

Infusels Corp. and Walt Disney
Co. will introduce a portal called
Go Nerwork (www.ga.com). The
site will use Infoseck's searching
capabilities, and draw content
from Disney, ABC News and
ESPN com. Sandpiper
ESPN com. Sandpiper
Networks. Westlake Village, Calif.
today Jaunches Footprint, an our
sourcing service that helps Web
publishers distribute content
over the Internet.

How To REACH US

Kate Maddox, editor (Amaddox@
crain.com); Pat Riedman, deputly editor
(priedman@crain.com); Matt Carmichael, associate editor (mattic@



FROM : ANTENNA GROUP

PHONE NO. 2 415 896 1094

Oct. 16 1998 08:13AM P3

1C - 45

MAGAZINE

BRANDWEEK

New York NY

Circ - 26 646 Meekly

SEPTEMBER 28, 1998

Insurance Firm Eyes Toolbar Ads

lihistrating again that every chunk of Web real estate is potential ad space, InsWeb, San Mateo, Calif., has signed with San Francisco-based Alexa Internet to advertise on the "What's Related" feature of the Netscape 4.5 browser and on the user's toolbar. For the campaign, which began over the weekend. Alexa will serve InsWeb ads within its toolbar when users visit an automobile or auto insurance-oriented site. As part of the deal. InsWeb is guaranteed a link as one of the top two choices listed in the toolbar when users click on Netscape's What's Related button.

Alexa is a free, downloadable tool providing ancillary information about Web sites via proprietary software. Alexa also serves ads within a box on its tool bar. Site information provided in the toolbar includes to whom the site is registered, how many visits it's received and a What's Related feature specifying the top 10 sites users visit afterwards. At the top of that list are two paid placements from advertisers that are separated from the remaining eight listings by a testeful gray line. Both the tool bar ads and What's Related links can be targeted to Web users.

In an agreement signed last June with Netscape, Mountain View, Calif., Alexa Internet-a company founded by technology pioneer Brewster Kahle-provides the software for a similar "What's Related" feature, which is integrated directly into the 4.5 browser.

Terms of the InsWeb deal were not disclosed. An Alexa Internet spokesperson sani that at peak times Alexa was serving as many as 34 ad impressions per second. The campaign will run at least through year's end. Other What's Related advertisers include CBS MarketWatch, HouseNet and First Auction - Susan Kuchinskas

Also ran in :

Adwerk - Southeast New England Festeral Midwest

Media week



Smart Computing Lincoln No

PLUGGED IN 🌜

Shorten Your 'Net Commute



eel a need for online speed? Who doesn't? With conventional modems reaching their limits and other options such as cable modems and digital phone lines still out of most users' price ranges or service areas, a bumper crop of software utilities has cropped up.

The software developers all have the goal of helping you make the most of your browser and Internet connection. Some packages tweak your dial-up settings for a speed boost while others reorganize your World Wide Web browser's cache to make browsing a bit faster. Regardless of their approach, they're all designed to offer spreedups you can no longer buy with new hardware if you already have the fastest modem available—a 56 kilobits per second (Kbps) unit

We'll review programs that speed up your Web browsing experience plus look at some

ways you can improve Web use and Internet connections without buying software.

Make The Most Of A Modem.

CheckIt NetOptimizer from TouchStone Software promises to increase your modem's throughput. It does nothing to the speed of the modem, so don't think of it as a modem upgrade. It tweaks your computer's port settings and Transmission Control Protocol/ Internet Protocol settings to make the most of your modem, regardless of its speed. (TCP/IP represents two protocols that together dictate how packets of information are sent over networks and ensure the reliability of data transmission across Internet-connected networks.) The modem will still connect at the same speed, but that connection's data transfer will be faster. For example, when you download files from the Internet, you'll see the speed at which they're being downloaded—generally in the form "14 KB/sec." That 14 kilobytes per second (KBps), which NetOptimize: works to improve TouchStone advertises rather spectacular increases. In a best-case scenario, it says you could get up to a 100% speed increase. We fined the software on several computers with different modems and Internet service providers (ISPs). In many cases there was little or no speed increase, but in a few instances we found impressive increases, such as 41% in one case and 64% in another. Still, they're a long way from the advertised speed boosts.

The problem is that your computer may already be using the optimum settings. If so, there's really nothing NetOptimizer can do to improve your connection. To tell whether the software would help your connection, watch your throughput speeds the next time you download a large file from the 'Net. If you have a 28 8Kbps modem, you should have a transfer rate of at least ZKBps. preferably around 2 5KBps. With a 36Kbps modem, expect throughput rates near 5KBps. With a 56Kbps modem, throughput rates should be at least 3.5KBps, preferably 4KBps. If your rates are significantly slower, NetOptimizer will be a handy product for you.

The utility works by changing settings that users rarely change on their own unless they know a lot about the TCP/IP and how to set their computers' communication port (COM port) settings. NetOptimizer is a great program that takes the guesswork and gruntwork out of changing those settings and actually tries several variations of settings until it finds the one fastest for your computer and modem.

Cache It. Both major browsers, Microsoft Internet Explorer and Netscape Navigator, increase download speeds by caching Web pages. Each time you open a Web page, a copy is saved in the browser's cache on your hard drive. Then, if you enter that Web page's address again (or click a link to reach that page), the browser checks whether it has a copy of it in the cache. If it does, it will quickly check to see whether the page online is the same as the one in the cache. If they match up, instead of downloading the whole page off the 'Net, the browser will open the copy in the cache. You see a speed increase because loading a page from your computer's hard drive is much faster than downloading it from the Web

October 1998 / Smart Computing 87

be safely stored o

so that)

For example, if you open a Web site, click a link and then click the Back button to return to that Web site, neither Navigator nor Internet Explorer will redownload the page Instead, you will see the copy opened from the cache.

This brings up the difference between the two types of caches. Navigator uses both a memory cache and a disk cache. The memory cache is the smallest, but also the fastest, and uses the computer's random-access memory (RAM). Typically, this cache takes about one megabyte (MB) of memory, enough to hold a few Web pages, pictures, and Java applets. The more extensive, but slower, disk cache is used to store pages displaced from the RAM cache as more recently viewed pages are added

The default settings in Navigator are relatively low: 1MB of memory cache and 5MB of disk cache. If you have plenty of memory, try upping the memory cache to 2MB or 3MB. Likewise, if you have a big enough hard drive, try upping the disk cache to 10MB, 15MB, or 20MB. If you're really adventurous you can try upping it further. The boost really depends on the speed of your computer, modem, and hard drive. If you have a slow computer and a slow or nearly full hard drive, a large cache probably won't help much and it will take the browser longer to quit. The larger the cache, the more maintenance required and the longer the wait.

Another way to improve cache performance is to have the cache check files only once per session. If Every Time in Navigator or Every Visit To The Page in Internet Explorer are checked, the browser will check the Web for changes every time you look at a Web page, even if you just saw it two minutes ago. All that extra double-checking can significantly slow you down. To fix this in the latest version of Navigator, 4.x, go to the Edit menu and select Preferences to change your cache settings. Click the plus symbol to the left of Advanced and then click Cache. In Internet Explorer 4.0, go to the View menu and then Internet Options. Click the General tab, then under the Temporary Internet Files options, click Settings.

With Navigator and Internet Explorer. changing the cache settings can produce minor speed improvements, but they won't be as good as those you'd see with Web caching utilities such as Connectix's Surf Express.

Mo-Brain Caching, One program that makes changing the cache settings simple and speeds up Web surfing: Connectix's Surf Express. It speeds performance by noticing ea i **NeTOPT**IMIZ**ER**

NetOptimizer tweaks your Transmission Control Protocol/Internet Protocol (TCP/IP) and communications port settings to allow your computer, modem. and internet service provider to communicate faster.

what pages you regularly visit and downloading updated copies of the pages to the cache ahead of time. It also creates its own cache and organizes it for optimum speed. Having one cache means that if you have both Internet Explorer and Navigator on the same system, they can share a cache, reducing duplication and increasing speed

The software works best for pages you visit often, such as those you have bookmarked or put in your Favorites menu. We couldn't verify Connectix's claims of Web pages loading 36 times faster with Surf Express than without, but even so, we did notice a respectable increase in speed when loading previously viewed Web pages. Users should realize, though, that this software is designed to speed loading of previously viewed Web pages, which are already in the cache, not sites you've never visited before.

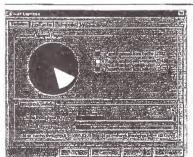
Surf Express offers a few tricks in addition to boosting the browser's speed. Doubleclicking the program's icon in the system tray (in the bottom-right corner of the screen) lets you see what kind of performance you're getting, how quickly pages are loading, and what percentage of pages you are looking at from your cache, as opposed to from the network.

The more pages you're getting from your cache, the better your speed

Even handier is the Surf Express option that lets you search your cache. So, before connecting to the 'Net and searching for something, you can save yourself the call by checking the cache first.

That's A Keeper! Anyone who has made a presentation featuring Web pages probably knows the perils. You could show up at the conference only to find there's no place to plug in your modem and thus no way to get on the 'Net. Or, the page you need to show everyone is suddenly unavailable. ISP problems. Phone difficulties. It doesn't take a vivid imagination to picture a plethora of things that could go wrong. Several software companies have put their imaginations to use coming up with offline browsers that simplify presentations heavy in Web pages by letting you capture the pages to your hard drive-images and all

The software is invaluable for presentations, but is handy for researchers, as well Because Web pages are constantly being changed, renamed, or moved among servers, a bookmarked document could be gone within a few



SurfExpress speeds your World Wide Web browser by caching and -mas team tuay pribachawab-era monly visited Web sites.

88 Smart Computing / October 1998

months. Instead of crossing your fingers and bookmarking it or saving a text copy, you can capture the whole page. Now that graphicsladen report you need to write your next masterpiece can be safely stored on your hard drive, not MIA on the Web.

The better utilities let you schedule downloads so that your favorite Web page will be waiting on your hard drive when you sit down at the PC. That means no more waiting for those graphics to load when you're reading the page.

Among the host of offline browsers, some, such as Net Attacké, are much more complex than others. We tried three of the offline browsers that are simple, yet functional, providing the most bang for the buck.

The first of the three packages we reviewed is Math Strategies' CatchTheWeb. The program lets you capture entire Web pages to the hard drive and organize them into a presentation. The software works great, but it only works with Internet Explorer and does not support Java or links inside the presentations themselves. In terms of Java, it means that you won't see Java applets (the programs that run things such as clocks and news/sports/stock tickers from inside a Web page) in the presentation, just a gray spot where they should be. Unless you're doing a

presentation on Java applets themselves, this shouldn't be a big deal, since the applets are usually just a small part of the entire page. Link support is also lacking. You can capture the top page of a Web site as well as several sub-pages. But if you click a link to one of the captured sub-pages in CatchTheWeb, the program will try 10 download the page from the Web, even if it has a copy within the presentation. In other words, the only way to move among pages is to use the back and forward buttons to move to the next page in the presentation. Still, shortcomings aside, it definitely beats the alternative of praying you'll be able to load Web pages when you're standing before an audience

SurfSaver from askSam Software offers the same functions and uses as CatchTheWeb, but with fewer drawbacks. It doesn't support links within presentations, but it does support Java and it's easier to use. CatchTheWeb requires you to run two programs at once Internet Explorer and CatchTheWeb Organizing a presentation can mean a lot of switching from one program to another. With SurfSaver, everything is handled inside Internet Explorer or Navigator. It's a big step up from CatchTheWeb, which only supports Internet Explorer, but it's not the best of the bunch.

That distinction belongs to DataViz s WebBuddy It also supports Navigator and Internet Explorer and, while its Java support is sporadic, it does let you follow links within presentations But that's not all: WebBuddy has other features the other two lack, making it a productivity tool as well as a presentation and research tool. One of the biggest features is the ability to schedule captures. You could use this to, in effect, download the morning paper before you arrive at work. You could schedule WebBuddy to visit a site such as the online edition of the Chicago Tribune and schedule it to capture the news page and follow all links one level deep. It would not only download the index of news stories, but each news story, as well. That's especially handy if you're connecting to the 'Net with a modem because you won't spend much time waiting for each individual page to load. If you're on a high-speed, office network connection, it probably wouldn't be worth the effort.

Another great WebBuddy feature is the option that lets you download an entire Web site, or specify the number of levels deep you'd like to download. With the other programs, you'd need to download each page, one at a time With WebBuddy, you can go to the top page, click a few buttons and save dozens or hundreds of pages.

Check Your ISP

Not all the solutions to a faster Internet connection involve software or hardware on your end. Sometimes it's your Internet service provider (ISP) that's dropping the ball. If you're still frustrated by your Web cruising speed after you've done all you can to improve your computer, it may be time to consider shopping around to see if other ISPs can offer a better connection. Keep in mind, they can't offer you the impossible (for example, a biazingly fast network connection for only \$19.95 a month), but there are always some ISPs better than others. Before you dump your current ISP, though, be sure to call and ask whether they have any ideas on how to improve your current connection speed. Dial-up numbers do change, and higher speeds could be as easily achieved as changing the number you dial.

If you can't get satisfaction from your ISP, though, you should consider a competitor. More and more ISPs are waving startup fees, so it should only cost the going rate for a month of service (or a fraction thereof) to try out some other ISPs. Key statistics that indicate whether you'll get better service are the connect speed (which can be found after you connect by double-clicking the modern toon the bottom-right corner) and the throughput rate, which you'll see in Navigator and Internet Explorer as the speed at which files download.

There's also a way to see how good a connection your ISP—and its competitors—has to the Internet. First, you'll need to know the ISP's Universal Resource Locator (URL), such as http://www.myisp.net. Collect those for each of the ISP's you'd like to test, then visit a Traceroute server. Two good ones are Consumer.net at http://consumer.net/tracert

.asp and Yahoo Traceroute at http://
net.yahoo.com/cgi-bin/trace.sh. These
servers trace the path from one computer to
another on the Internet, measuring the
umber of stops along the way and the time
the tip takes. The ISP with the fewest stops
and the shortest time has the best connection. Remember that this works better for
local ISPs than nationwide ones because a
small ISP's Web server is generally close to
the ISP's modern server on the Internet. A
nationwide ISP, on the other hand, could
have its Web server in San Francisco, while
the modern server you're dialing into coulc
be hallway across the country.

The ISP solution is admittedly a long shot, but it's not an impossibility. Of three local ISPs we tested, one consistently hat throughput rates half those of other ISP in town.



WebBuddy is not without its drawbacks, either, though Some animated graphics didn't save correctly, and on some pages, only one frame is saved.

Browse Smarter. Alexa, a free addon to Navigator and Internet Explorer promises to help you browse faster by making your browser a bit smarter. To do this, it places a toolbar across the bottom of your browser window that offers suggestions as to what other related sites you should visit and a little information about the page. The information generally how well trafficked it is (in the top 10,000 visited sites for example)—is not very useful, especially on pages for companies without their own domain. For example, http://www.isp.net/bobsdiner would give info about ISP net not Bob's Diner.

The most persuasive reason to get the soft-ware (the site recommendations) are hit-and-uss. Sometimes Alexa will pull up some great sites that you wish you'd discovered a few months ago while other times you won't find a good suggestion in a list of 10. More often than not, however, there were at least a few worth-while suggestions. Alexa is more handy for, and geared toward, novice Web surfers who need or want a little help finding their way around the Web (and who don't mind the ads on Alexa's toolbar at the bottom of the screen)

More experienced users might also enjoy the program, though, because it does save time finding related sites. It also offers two other handy features in. Alex offers a way to search the Encyclopaedia Britannica and Merriam Webster Online dictionary and thesaurus from the Alexa toolbar and an option that will search an online archive for pages that report File Not Found errors. While the encyclopedia/dictionary/thesaurus search option was very handy, we weren't able to find any pages with File Not Found errors that Alexa was able to find in its archive. In any case, it's easy to minimize the toolbar when you don't need it, the price is right, and it doesn't cost anything to give it a test drive

waiting? If you have call waiting, downloading large files can be a nughtmare. You're forced to either turn calls away for as long as an hour or two or risk having the download interrupted and ruined. You generally have to restart at the beginning when a download is aborted. Then there's the long downloads aborted when somebody picks up the phone and the

The Total Company Comp

Have a World Wide Web sits you need to save, but want more than a text copy or a printout? WebBuddy saves Web pages or entire Web sites, complete with graphics.

modem hangs up. With Headlight Software's GelRight 3.2, such worries are a thing of the past. Interrupted downloads easily can be resumed once you reconnect to the 'Net, using as many tries as it takes to get the whole file.

We tested GetRight several times on large files and were merciless in terms of disconnecting the phone line repeatedly to drop the connection. Despite the abuse and having to resume the download several times, GetRight downloaded the files without a hitch. It's a handy tool that would be perfect if it was integrated into the browser bottor. To use it, you must right-click the link to whatever it is you want to download then select Copy Link Location. GetRight will pop up and ask whether you d like to download the file with GetRight. The program runs into trouble if a link points to a redirector that points to the file to download (not simply the file itself). In such cases, GetRight can't follow the link, so it can't download the file. You still can download the file through your Web browser, but you won't have the protection GetRight offers.

These tips should help you coax a little more out of your modern through some crafty software. At the very least, you should no longer feel hopeless in your quest for faster, less frustrating. Web-suring expeditions.

by John Lalande

For More Information:

Alexa free Alexa Internet (888) 882-5392 (415) 561-6789 http://www.aiexa.com

CatchTheWeb 1.06 \$39.95 Math Strategies (888) 236-2446 (336) 855-7065 http://www.catchtheweb.com

CheckIt NetOptimizer 1.00 \$39.95 TouchStone Software (800) 932-5566 (714) 969-7746 http://www.touchstonesoftware.com

GetRight 3 2 \$17.50 Headlight Software (888) 201-7131 (805) 254-2681 http://www.getright.com

Surf Express 1.1.2 514.95 Connectix (800) 950-5880 (650) 571-5100 http://www.connectix.com

SurfSaver 1.1 539.95 askSam (800) 800-1997 (850) 584-6590 http://www.surfsaver.com

WebBuddy 1.1 \$39.95 DataViz (203) 26S-0030 (800) 733-0030 http://www.dataviz.com/Products/ WebBuddy/WB_Home.html Circ - 549,542

OCTOBER 1998



Search Sites Refine Their Technology and Methods

The "Pay to Be Found" Model Is Spreading

on the past year, it seemed like scarch-engine heros have been to many on everything but searching Features airch as tree e-mail, tanginge translation, and stock quotes are all available from would be. Web purtals, but rere astured that a lot of elburt in going toward making finding information online faster and more intuitive as well.

Although not technically a very length, Alexa Internet's Alexa 2.0, a "Weblication" that can be integrated into the most recent versions of Netscape Navigator and Internet Explore, tries to find patterns in Website usage that will help surfers find what they seek.
Browster Kahle, president of

Alexa Interrute, president of Alexa har rice, describes Alexa as a companion goule to searches. "Rather than offering a keyword search, Alexa uses Firefly Technology to Tevrage more information than the contents of the Web site, telling the user what other people thought of the page."

Other search-engine firms attempt to add some personality to their services. Ask Jeeves (www askijerous som), for example, attempts to answer questions posed by users with sometimes hilarious but frequently useful results. When easked for the name of Sherlok. Holmes' in other, the ninth response brought up a film title about the detective's brother

Mycroft, but the third response listed a page about getting green carils for relatives.

As the number of users online has increased, so has the value of a service that, for \$100 a year, allows you for user a keyword as an actual address. By registering a branil name or product description, companies can bypass using URLs conjectly. For example, typing is "new beede" in Real Names' search box takes you directly to Voltawagen's New Beede page.

Another service, GoTo com, also works on the pay-to-be-found principle. Results from GoTo's Inktomi-driven search engine are listed according to which companies paid for placement. A search for "books"

shows that the top 34 sites listed will pay Co To anywhere Irom a penny to 10 cents for a bit. Over 1,000 advertisets so far have bid to pay lobigli placement, including llaruce and Noble and Online Anno

However, as David Card, an analyst at Jupiter Communications points ont, "Just because someone paid for a top spot doesn't mean it is the most useful."

As the Internet expands, the problem will not be how to find information, but creating a format for presenting it that will make it useful. According to Card, 'It's no accident that Yahoo leads the field. Having humans make decisions on content classification marks the difference between raw data and information." — Mannah Kinnessian."

DIRECT CURRENTS

All the Pretty PCs

PCs Should Look Better, and Will

omputer journalists are rarely called upon to render aesthetic judgments or contemplate the beauty of the machines about which they write. Perhaps this is because most computer manufacturers don't give beauly much thought. Now, however, a clever few are experimening with a range of new system designs and color schemes to give personal computing a face-lift.

The progress toward prettiness has a precedent. In the early days of the outomobile, Henry Ford built his company by offering the Model T in any color the customer wanted, as long as it was

One of the most stunning examples of machine beauty I have seen recently is the Sony VAIO 5056. At a mere 2.9 pounds and less than an inch thick, this is a sleek machine by any

measure. But it's all the little touches that make the VAIO beautiful: the feel of the silver magnesium case, the way the integrated stylus disappears into the display, the way the silm battery slips into the back of the system, the pulse of the 2004Hz AMMX Pentium processor inside.

When our Mobile Computing editor first showed me the VAIO 505G, I went, in less than a minute, from being awestruck to coldly calculating how I could

get Ziff-Davis to buy me one.

Big changes are being made to
the desktop as well. The IMac made

a big splash this summer with its translucent aquamarine case, Integrated display, and rounded corners. To be sure, those features won't make up for a dearth of third-party software support. But the IMac packs enough power, with a zooMitz PowerPC processor, to shake things up a his

The Panda Project has made an even more dramatic design departure, taking the ordinary PC chassis and standing it on its head (a corner, to be precise). The CPU for the company's Rock City PC it a io, s-inch cube, available in basic

form factor. The Panda Project has managed in deliver a PC that is functionally equivalent to its boring beige counterparts that we all know and ignore. Panda even offers a sub-si, ooo model to

satisfy the cost-conscious as well as the fashion-conscious



IT JUST LOOKS BETTER

PC makers have been pushing power for a while now, but because deveryone has access to the same components, this is a relatively level playing field. This leaves vendors to compete on price, an unpleasent experience for everyone except the buyer.

But what If a vendor sold a PC that simply looked better? All other things being equal, most shoppers would pick the more attractive system. In fact, they may even pay more for it.

Consumer appreciation for machine beauty helped Nokia capture such a large share of the cellular-phone market, it's one of the main forces driving the sales of flat-ponel displays. And it will be the most obvious way PC vendors differentiate their products in the future.

Beaufy should never be the only factor in buying a PC, or any tool for that matter. But it is clearly becoming more important. So don't be surprised if words like "design," "aesthetics," and "elegance" start showing up more

black. Today, because appearance is one of the most important factors in making a purchase, ford has diversified its offerings just a bit. PC vendors will soon have to do the same—they will have to make PCs beautiful.

Dan Costa

David Celernter, a professor at Yale Universitive, cells this curious application of aesthetics. "machine beauty," defined in his book of the same name as the "happy marriage of simplicity and power." It's the affection you feel for the Ducat's sie even if you don't ride a motorcycle. PCs tarely evoke this kind of passion, but this is.

The Washington Post

Your Past Is Your Future, Web-Wise

By JOSEPH D. LASICA

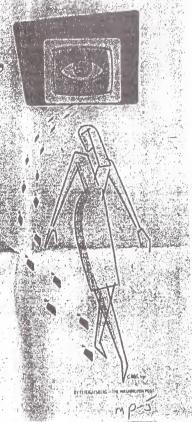
ur past now follows us as never before. For cipturies, refugees sailed the Atlantic to start new lives. Listly enter pulled up stakes and weith vest to California. Today, however, reflicention coincs less easily and second chances seem more remote. You may leave (Mynight your electronic shadow stays bellind; as anyoue who has wentured onto the Internet well knows.

We often view the Internet as a communication medium or an information terrification, but it's also a powerful archiving fields um that takes snapshots of our digital lives—which can be stored forever.

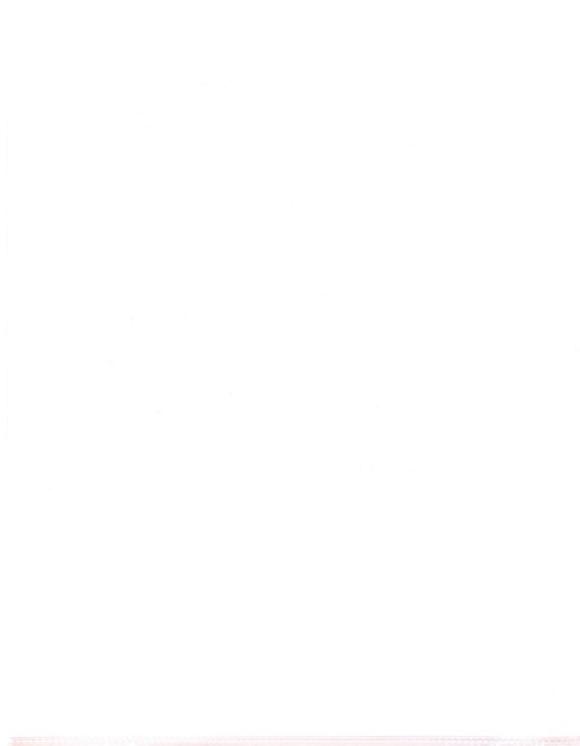
It's not just official documents or consumer profiles about us that are being collected, but the very essence of our daily online existence: Our political opinions, prejudices, religious betiefs, sexual tastes and personal quirks are all becoming part of an immense media goop that is congealing into a permanent public record. What is different about

SO DIGITAL ARCHIVES, C5. Gold

Joseph Lasica writes frequently about new media.



HAT DECADE!



http://web.lexis-nexis.com/requester/ document?_ansset=GeHauKO- Document Listing

Tuesday September 6 '995





[Main Menu] [Last Form] [Document List] [Full View] [KWIC View] [Prev] [Next] [Help]

Document 1 of 4.

Copyright 1998 Information Access Company, a Thomson Corporation Company LAC (SM) PROMT (R) Copyright 1998 Ziff Davis Publishing Company Computer Shopper

October, 1998

SECTION: No. 10, Vol. 18, Pg. 116; ISSN: 0886-0556

TAC-ACC-NO: 50267818

LENGTH: 442 words

HEADLINE: Search Sites Refine Their Technology and Methods

BYLINE: Kinnersley, Hannah

THIS IS THE FULL TEXT

BODY:

The Pay to Be Found Model Is Spreading

For the past year, it seemed like search-engine firms have been focusing on everything but searching. Features such as free e-mail. language translation, and stock quotes are all available from would-be Web portals, but rest assured that a lot of effort is going toward making finding information online faster and more intuitive as well.

Although not technically a search engine, Alexa Internet's Alexa 2.0, a "Weblication" that can be integrated into the most recent versions of Netscape Navigator and InternetExplorer, tries to find patterns in Web-site usage that will help surfers find what they seek.

Brewster Kahle, president of Alexa Internet, describes Alexa as a companion guide to searches. "Rather than offering a keyword search, Alexa uses Firefly Technology to leverage more information than the contents of the Web site, telling the user what other people thought of the page."

Other search-engine firms attempt to add some personality to their services. Ask Jeeves (www.askjeeves.com), for example, attempts to answer questions posed by users withsometimes hilarious but frequently useful results. When asked for the name of Sherlock Holmes' brother, the ninth response brought up a film tute about the detective's brother Mycroft, but the third response listed a page about getting green cards for relatives.

As the number of users online has increased, so has the value of a given search result. Real Names is a service that, for \$ 100 a year, allows you to use a keyword as an actual address. By registering a brand name or product description, companies can bypass using URLs completely. For example, typing in "new beetle" in Real Names' search box takes you directly to Volkswagen's New Beetle page.

Another service, GoTo.com, also works on the pay-to-be-found principle. Results from GoTo's Inktomi-driven search engine are listed according to which companies paid for placement. A search for "books" shows that the top 34 sites listed will pay GoTo anywhere from a penny to 10 cents for a hit. Over 1.000advertusers so far have bid to pay for high placement, including Barnes and Noble and Online Auto.

However, as David Card, an analyst at Jupiter Communications points out, "Just because someone paid for a top spot doesn't mean it is the most useful."

As the Internet expands, the problem will not be how to find information, but creating a format for presenting it that will make it

FROM : ANTENNA GROUP PHONE NO. : 415 896 1094 Sep. 11 1998 10:46AM P10

http://web.toxis-nexis-com/requester/ document?_ansset=GeHauKO- Document Listing

Tuosday, September 8, 1998

useful. According to Card, "It's no accident that Yahoo leads the field. Having humans make decisions on content classification marks the difference between raw data and information."

LANGUAGE: ENGLISH

IAC-CREATE-DATE: August 31, 1998

LOAD-DATE: September 01, 1998

Client ID: 130

[Main Menu] [Last Form] [Document List] [Full View] [KWIC View] [Prev] [Next] [Help] [About LEXIS-NEXIS] [Terms and Conditions]

Copyright® 1998 LEXIS-NEXIS, a division of Reed Elsevier Inc. All rights reserved





your PC management costs



TECHWEB

Search news:

Search Advanced Search

Technology Stocks & Finance Internet

Week's Headlines

News By Category

Apple Chips Hardware International

Microsoft Trial Networking Software

Storage Telecom Year 2000

Sponsored link 3-D Site Map



Video + Audio Features Opinion Humor

News Window New!

Related Resources Buy Books Buy Software Company Profiles Download Center Encyclopedia

Technology News Snap Banks On Portal-Browser

Mix

(10/01/98 6:35 a.m. ET) By Malcolm Maclachlan, TechWeb

The browser-portal mix has proven to be a potent formula for Netscape, and now another company is trying to copy that success -- but it isn't Microsoft.

On Tuesday, Snap announced a deal with Bigfoot and Alexa to create a browser-portal combination of its own. Bigfoot will make Snap the default portal for its NeoPlanet 2.0 Internet environment, an interface built on top of Microsoft's Internet Explorer 4.0.

NeoPlanet 2.0 contains a built-in set of channels on different topics designed to simplify navigation.

Bigfoot will integrate the Snap site into the Neoplanet interface. Snap is a portal site started by Cnet, and is intended to be a one-stop site for people seeking news, information, and services on the Web

Alexa will contribute its related-links service to the package. NeoPlanet users who click on the "What's Related" button will get a list of sites related to the one they are viewing.

Alexa's related-links service also appears on Netscape's beta release of Communicator 4.5, released in July. Every time someone uses the service, they will see a small banner ad sold by Alexa.

Bigfoot has been looking for a high-profile content partner, said Drew Cohen, general manager for NeoPlanet. He said the Snap-NeoPlanet combination would be similar to Netscape (company profile), making its Netcenter site the default page for its own browser. Netcenter has

Top Stories AT&T To Buy Vanguard Cellular

Cisco Faces FTC Probe Says Report

Congress Likely To Pass Technology Bills

Combat-Ready Security Tools To Debut

Notebooks Take The Price Plunge

Concert Launches Virtual Private Data Network



See our Tech Encyclopedia for more info.

Events/Shows
Product Reviews
Free Product Info
Career Search
Web Development

E-mail Newsletters
Link To Us
Send Feedback

ridden this combination to become one of the most popular sites on the Internet.

Forty-five ISPs already distribute NeoPlanet, and Bigfoot will soon announce more, Cohen said. Most of those ISPs, Cohen said, will probably create customized versions of NeoPlanet that include their logos, and link to a special ISP page that includes Snap content and prominent links to Snap.

COMPUTER PRODUCTS UNIVERSITY

Free E-mail Login - Sign Up Now



instance, NeoPlanet could be promoted in NBC's fall marketing push for Snap. NBC owns a minority stake in Snap.

In return, Snap will distribute NeoPlanet, but the

details have yet to be finalized, Cohen said. For

"That is clearly one of the things that is very enticing with Snap," Cohen said of the NBC connection.

Bigfoot has begun a major marketing push of its own, hoping to register half a million users by the end of the year. But Bigfoot faces an uphill battle, said Barry Parr, an analyst with International Data Corp., because both Netscape and Microsoft are targeting portal sites. In the process, they are likely to try to close off features in their software that provide openings to portal competitors.

Related Stories:

Keywords Concept Gets Mixed Reviews

Netscape Heightens Appeal to ISPs

Search Archives

Search

Sponsored Supplements From CMPnet



Premiere! Become a part of the hottest <u>IT resource</u> in the galaxy.



It's not just a nuisance anymore ...
What you can do about spam.

- ▶ HR made easy! Use the Internet to manage your human resources.
- ▶ Win a prize! Take our small biz quiz to find out what you really know.



Are you on the list?

Sian Up!

C- :E! 14.566 :S! 13 608

acon.8 - June CTOBER 4, 1998

lexa makes sense of chaos on the Internet

OT WILLIAMS

n the floor. That's not a pretty picture. But on to handle, the analogy feels close to the ared with a library with all the books dumped earch engines fail by retrieving too much in-E Internet's vast resources are often com-

a (www.alexa.com), named for the great lithe third century, is a unique effort to both e the body of information contained in the Inwhere countless pages are scrapped every d to provide intelligent assistance in navigat-

at the bottom of my browser has been feeding stars — data about each site I visit — and of-recommendations on other sites that I might ing the past six months, an Alexa toolbar rerandom paths.

as exhaustive information about those no n/(tilde)|mann/dps). When I'm there, Alexa me other sites like Find a Grave, the Political sard, Biography, We'll Always Remember (the age for dead rock stars) and, of course, Dead pose you go to the Dead People Server, a site with us, organized alphabetically (www.city-

Moving on te Biography com, I can click on another button to find out who owns this swe ithe Biogthe domain's registration date and other information -like how the site ranks in terms of Web visitors. its speed, freshness, number of pages and how many raphy Channel) with address, phone contact number, other sates link to it.

in San Francisco. Kahle also founded the nonprofit

Internet Archive of the Web to record the history of cyberspace in 1996. "It's an Internet assistant, like

having a really smart friend with you." Trend watchers take note: Wired magazine's September issue deemed surf engines "Arred" and portals

the apportunity to vote on whether you like each If available, there are also site reviews and the collaborative ratings of Alexa users. (You're offered aite.

And yes, there's an ad, a very small ad, that changes as I move to a new site.

you and guides your path.

ily grayed out, but will be made active again this month. When this "archive" function returns after some reconstruction, Alexa will allow you to retrieve dead Web pages — ones that used to be there but now yield a "404 Not Found" message when you ask for them. There's also a mysterious button that's temporar-

Alexa pulls off this miracle by dipping into its 12 trillion byte archive, which contains copies of Web pages that it's been collecting since early 1996. It's been taken off line for work because the archive just got too plan big to serve back quickly.
I confess that I am hooked on Alexa. But what is

analyzing our clicking on or clicking away from pages on the Web. gine," said Brewster Kahle, thief executive of Alexa internet, which has its headquarters in the Presidio "The term that seems to be sticking is surf en-

It calculates the paths that we choose and the time that we spend visiting. Then the information is used in addregate to belp inform future users. It could be called a recommendation engine. Overall of Web pages figure in to the compilation of related Web traffic patterns, link structures and the content The usage paths are separate from information inks

that could identify an individual. Alexa says it follows a privacy policy ensuring that any information from an individual will not be provided to a third party. I'm sure that some people wont trust that promuse on privacy, but it's good enough for me tired." Portal sites try to hold your attention and keep you, while Alexa travels out on the Web with Surfing with Alexa gives consumers and business people information that helps them make information trust decisions," according to Kahle. For each of the 1 million Web nosts documented and

The other nice thing about Alexa. You don't have to buy it. The newest version of Neiscape Communcolor (4.5) has the Alexa links feature embedded as Internet Explorer 4.0 has a version of the full Alexa its "What's Related" component of Smart Browsing Yahoo Internet Life and the Recreational Software arrace that can be installed in less than a minute. news and ratings come from Alexa partners, such as ranked in popularity by Alexa, information on who's behind it and where it's located is collected from offirial domain name registration information. Site re-

You may also download Alexa for Netscape Nam. But the collective intelligence behind the related stator 3. Communicator 4 or Internet Explorer 3 min-oks feature that make Alexa unique comes from us-statig on Windows 95 or NF 40. An "alpha" exensor for the Macintosh is available for testing. ers like me and you. When activated next to our

inks feature that make Alexa unique comes from us-

Advisory Council.

its random paths.

Alexa toolbar residing at the bot

During the past six months, an

ing me site stats-data about each tom of my browser has been feed

NETWORKING Alexa Makes Sense Out of the Chaos That Tangles the Web

il askington Post Stoff IF mier MARGOT WILLIAMS 9/28

handle, the analogy feels close to But when search engines fail by floor. That's not a pretty picture. with all the books dumped on the are often compared with a library retrieving too much information to Alexa (u-ww.alexa.com), named The Internet's vast resources

Egypt, that was destroyed by fire for the great library of Alexandria intelligent assistance in mavigating scrapped every day, and to provide net, where countiess pages are information contained in the Intercifort to both preserve the body of in the third century, is a unique you like each site.)

dead Web pages ones that used Alexa will allow you to retrieve ber. When this "archive" function will be made active again in Octothat's temporarily grayed out, but for them. Not Found message when you ask to be there but now yield a "409 returns after some reconstruction.

just got too plain big to serve back since early 1996. It's been taken of Web pages that it's been collecting archive, which contains copies of dipping into its 12 trillion byte line for work because the archive Alexa pulls off this miracle by

search engine, not really a Web site Alexa. But what is it? Not exactly a I confess that I am hooked on

ways Remember (the home page Graveyard, Biography, We'll Al

for dead rock stars) and, of course

there, Alexa shows me other sites net.com/Imann/dps). When I'm

Find-a-Grave, the Politica

alphabetically

(www.cily-

those no longer with us, organized exhaustive information about People Server, a site that has might try for related information mendations on other sites that site I visit-and offering recom

Suppose you go to the Dead

can click on another button to find terms of Web visitors, its speed out who owns this site (the Biograhow many other sites link to it. freshness, number of pages and tion-like how the site ranks in istration date and other informacontact number, the domain's reg phy Channel) with address, phone Moving on to Biography.com, I

the opportunity to vote on whether ings of Alexa users. (You're offered reviews and the collaborative rat-If available, there are also site

small ad, that changes as I move to There's also a mysterious button And yes, there's an ad, a very

with you." in 1996. "It's an Internet assistant to record the history of cyberspace profit Internet Archive of the Web co. Kahle also founded the nonters in the Presidio in San Francis ster Kahle, chief executive of Alexa "The term that seems to be sticking is surf engine," said Brewlike having a really smart friend Internet, which has its headquar-

deemed surf engines "wired" and portals "tired:" Portal sites try to while Alexa travels out on the Web Wired magazine's September issue with you and guides your path. Trend watchers take note:

mation that helps them make "insumers and business people infortormation trust decisions Surfing with Alexa gives con

Places to Go

these ghoulish ghostly sites crank up for the holiday season. As Halloween costumes and decorations arrive in stores

■ Dead People Server: www.city-net.com/-imann/dps

Find-a-grave: www.findagrave.com ■ Political Graveyard: www.polifos.com

Biography.com: www.biography.com

We'll Always Remember: www.hotshotdigital.com/

Dead Elvis's Page: www.slimeworld.org/dead Or find out about "dead media" and join the narconauts at the WellAlwaysRemember

Dead Media Project. www.islandnet.com/-ianc/dm/dm.html

www.findagrave.com

and ranked in popularity by Alexa such as Yahoo Internet Life and ings come from Alexa partners information. Site reviews and ratofficial domain name registration where it's located is collected from information on who's behind it and I million Web hosts documented according to Kahle. For each of the

cisions that we make about what's Alexa anonymously tracks the deactivated next to our browsers from users like me and you. When that make Alexa unique comes behind the related links feature ry Council. ing our clicking on or clicking worthwhile or worthless, analyz But the collective intelligence

the Recreational Software Adviso

than a minute.

away from pages on the Web. It calculates the paths that we

future users. It could be called a used in aggregate to help inform visiting. Then the information is choose and the time that we spend tures and the content of Web pages Web traffic patterns, link strucrecommendation engine. Overall related links. figure in to the compilation

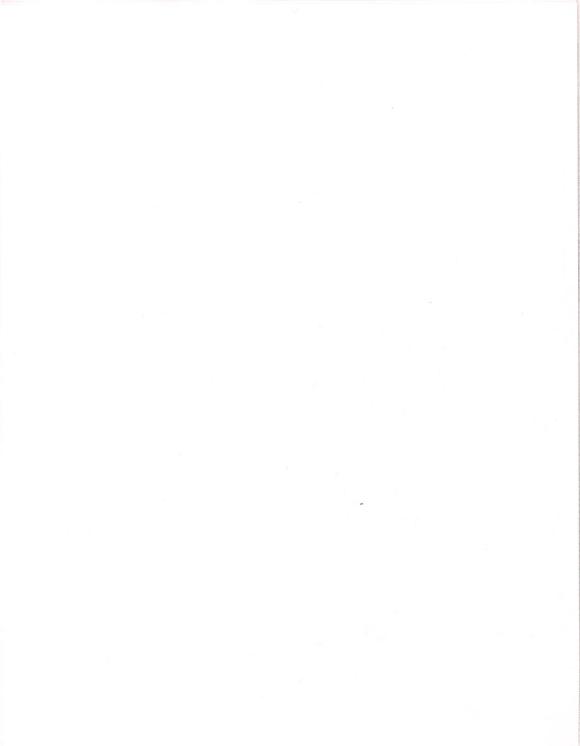
from information that could identiprivacy, but it's good enough for people won't trust that promise on third party. I'm sure that some vidual will not be provided to a that any information from an indifollows a privacy policy ensuring fy an individual, Alexa says it The usage paths are separate

Browsing Internet Explorer 4.0 Related" component of Smart feature embedded as its "What's municator (4.5) has the Alexa links newest version of Netscape Comexa: You don't have to buy it. The service that can be installed in less has a version of the full Alexa The other nice thing about Al-

running on Windows 95 or NT 4.0. for Netscape Navigator 3, Commutosh is available for testing An "alpha" version for the Macinnicator 4 or Internet Explorer You may also download Alexa

Don't wait. Get it now

Margot Williams's e-mail address is williams@washpost.com



RAINGS 公益公立公 IOP DOWNLOAD IN THE WORLD 公立公立 WURTH WAITING FUR 公公公 BEEN THERE DOWNLOADED THAT 公众 CORRUPTED FILE 公 ATARIDOVAN ÓAD

download sites. It lets you download times based on ideal twerk more things in a download than I care to think about Download Bullac

Calculating Downloads

ਸੰਸੰਸੰਸ਼ Hold a! Do you really have time to download that lile? Find our before you click on the Download button by surfing over to the Intel-Owner's Club Download Calculator. This isn't a download itself but an online app that quickly converts the size of a file into precise download times for everything from a 14.4Kbps connection to a T1.

Avoid Traffic Jams ਸੰਸੰਸ Of course, you know

Download Calculator

you can't believe what the Intel Download Calculator says.

connections. Yeah, right, This is the Web we're talking about Nothing's ideal. If you try to download during the Internet's drive time, forget the predictions. Your download's going to be clogged in traffic. If there's no hurry for the download, test the site for 24 hours with Any Speed. It sends pings every few milliseconds to whatever location you desire and graphs response times against the time of day. That way you'll know when the streets to a download site are deserted. Any Specia

All's Ferret

संस्था A no-brains alternative to Copernic (page 300, fortom) is WebFerrer. It taps into only ten search engines, and you have fewer options than in That's because it figures out Coperme, but it's small, fast,

DECISIONS, DECISIONS

ដល់ដល់ We'll be ready to start downloading any time now. But first, we need something to take care of those download pages that list umpteen mirror siles you can also use to suck down the same file. Which will be faster? The one nearest you? Fat chance, You need Dipstick. When faced with multiple download sites, drag the URLs of the sites to Dipstick's window, kill a few seconds with some In-chair aerobics, and Dipstick will give you a ranked list of all the sites along with the minimum, average, and maximum round-trip time for its test pings and a percentage that

tells how many data packets got



lost en route. You'd be surprised. A Microsoft download site in the Czech Republic was twice as fast as the company's California site. And Dipstick's free. What else do you want? Dip your stick!

TWEAKDUN IT

ជាជាជាជ Well, now we can start downloading. . . . Hold It. Wouldn't it be a good idea to make sure our internet connection is running at its peak? That's



a job for TweakDun, a utility that automatically changes certain Windows default settings, such as the maximum size of a transmission unit, to improve Net performance. It keeps a local copy of IP addresses of sites in your Favorites list, which saves a few seconds over tooking them up on a server, it not only tells you how to do something, it tells you why you'd want to do it, I ran some very casual tests that I wouldn't stand behind it anyone as much as cleared his throat, and I really didn't notice sparks flying off my modem. But I'm going to send in my \$15 to unlock all the other Not speed tweaks. TweakDun 2.2

and the results I got were generally as good as Copernic's. I looked for my name and got the Ron Hightower's White Chicks page, which reintorces my belief that finding what you want on the Net is still more about karma than high technology WahFerret

Cookie Cutter-Upper

* Wait! Maina always said, "Don't take any wooden cookies." You listen to your mana and download Cookic-Master before you start hanging around sites that want you to "register." CookieMaster is a freebie from the nice tolks in the Paranoia Division at Ziff-Davis. It displays a list of all sites that have stuffed cookies into Internet Explorer 4.0 or Netscape Navigator. It also tells you the name of the site assigned to the cookie and the cookie's contents. Unfortunately, most of the contents are gibberish. But if other people think this information about you is important, don't you want to see it even if you don't know

what it means? CookieMaster lets you delete any cookies you think are crurriby. I'm sorry. You know how I hare to pun. ZDNet a Cookie Master



By Ron White For five links to all these plus 1001 more free downloads head to www.occomputme.com

PC Computing (ISSN 0899-1847) is published morthly by ZD Inc. One Park Avr. New York, NY 10016 Peruduculs partage pard at New York, NY 10016, and at additional mailing offices. Postmarter, Send address changes in PC Computing 1: O Bux SAZ29, Bushiter CO 80328 8229 Printled in the U.S.A. Careda Fost International Profit cations Mail Product (Canadian Distribution) Sales agreement to 278513. The Canadian OST registration number is 14049-6720 R1 301



Interactive Week

ESPN Internal Ventures
President Tom Phillips has resigned to "pursue other interests."
Senior Vice President of Programming
Geoff Reiss was named interim
general manager of the group, best
known for the www.ospn.com site

Also, ESPN.com said it will partner with multimedia content aggregator Broadcast.com
Inc. to integrate ESPNs college feaball information with streaming media broadcasts carried on www. broadcast com

Wired Digital Inc. this week plans to launch a marketing campaign in support of its Halbat navigation service (www.halbat.com). The company expects to spend between \$10 million and \$15 million this year and next on television advertising focused in selected metropolitan markets

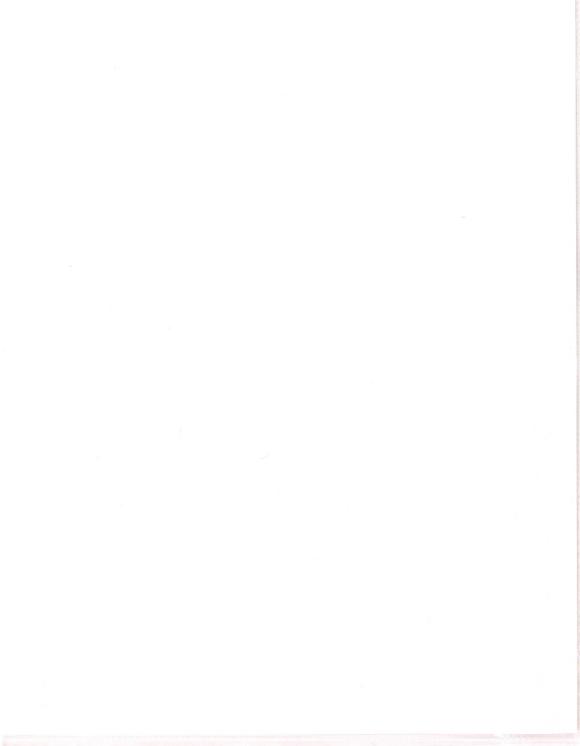
Digfoot International Inc.

(www.higfoot.com) reached

agreements to incarporate afferings
from the Snapt navigation service
and Alexa Internet link service
into its NeaPlanet browser (www.
neaplanet con).

Microsoft Corp. (www. microsoft.com) converted 70 topic-specific forums previously available only via its proprietary MSN Internet access service to be accessible from its MSN.com portal site. Microsoft combined the forums with 50 chall areas offered on existing Web properties to create an aggregated challoftening covering 120 topics.

2



The Sevbold Report on Internet Publishing August, 1997

Alexa gets you where you want to go

Navigation service alleviates search engine roulette

It's no secret that search engines are now one of the weaker links on the Web. When Web users go to a search site, they usually expect plenty of duplicate URLs, irrelevant sites and links to pages that vanished weeks or even months ago.



Typical page at Alexa.com. The "where to go next" menu, along with the basic toolbar on the bottom, which gives the four most common navigation dottons, basic server info, and buttons for contacting the archive and online .ommunication features.

Alexa Internet, a San Franciscobased start-up, is offering a product that may provide a real alternative to search engine roulette. The company's Alexa navigation service is, in equal parts, a search engine, a directory service à la Yahoo, an archive, and a collaborative filtering system. The resulting combination is a novel-and effective-tool for navigating the Web

The Alexa service consists of a client application that appears as a tooloar at the bottom of a user's display When the user goes to a Web site-a travel agency, for example-the client simultaneously sends the URL to the Alexa server, which suggests other Web sites that offer related content. Even if the initial link is lame and obscure (try entering "Iravel agency" in Alta Vista and see what you get!). Alexa can point to higher quality sites-Travelocity, pethaps, or TravelWeb. If the user clicks through to a related but somewhat different site, such as a travel firm that deals specifically with cruises. Alexa will note the distinction and display updated links that match the user's interests.

Alexa works. first, by regularly crawling and archiving the entire public Web (about two terabytes of data) at the rate of around a terabyte per month. The service, which has been certified by the nonprofit TRUSTe (formerly known as e-Trust) initiative, honors the robots.txt protocol and will ignore sites at the owner's request, Alexa also regularly turns over its archives to the Internet Archive, a nonprofit organization dedicated to preserving a series of historical "snapshots" of the Web.

While Alexa archives the Web. the system uses several techniques to analyze sites. First. Alexa uses neural-net technology to perform a text analysis of sites, looking for pages and sites with similar characteristics. The system also analyzes link structures, detecting patterns that point to particularly common or popular sites. The idea here is to exploit the expertise bullt into the thousands of link lists and "favorite sites" pages, in almost every conceivable category, already available on the Web. In addition, the system makes creative use of public databases to find companies operating in the same business category-and that might have similar Web Sires

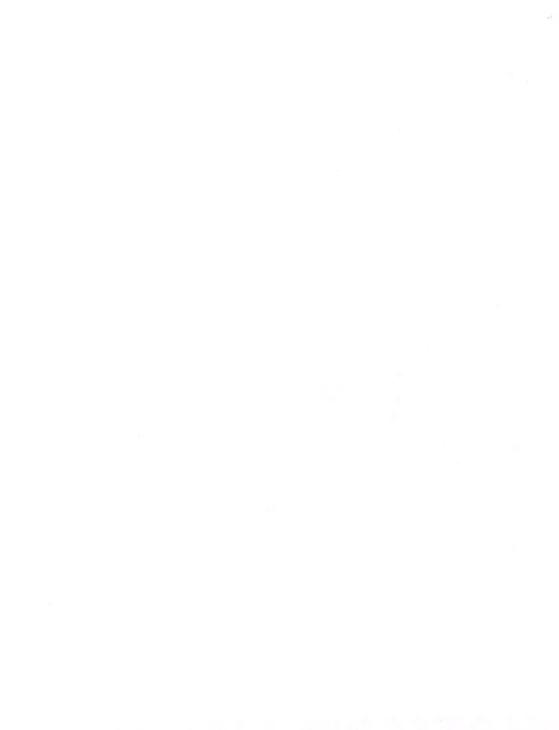
Alexa also includes data from the anonymized surfing habits of its users: which sites they visit. how deep they go, how long they linger and where they go next. Users can also explicitly state their opinions by voting on whether or not they found a given site helpful.

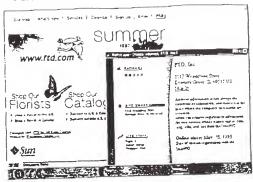
The system offers some other interesting features. Because Alexa archives Web content, usattitived copy or the page instead of the usual "404-Not Found" error message. The toolbar can also provide information on who owns a site, how many pages are on the site, how many other Web sites point to the site, how frequently it is updated and how popular it is among other Alexa users. Finally, Alexa will show which other users are online and allow real-time communication with them

Ads that stick. As always, the key question is "where's the money?" Alexa is using an adbased business model, placing the ads on the toolbar and on an extended pulldown list of recommended sites. The ads are context-sensitive, so that users looking for that perfect travel site might see a Travelocity adeven while they browse through competing sites.

While we wouldn't hazard a guess on whether this variant of Web advertising will fly when so many others have crashed and burned, it is certainly interesting. By keeping the ad on the Alexa toolbar, the service can keep an advertiser visible across a series of Web sites, something that even the biggest site-based ad networks can't promise yet. Alexa places ads only on designated areas of the toolbar, keeping plenty of free space for the system's objective choices.

Privacy issues might also be a concern here, but in this case Alexa has done everything right The company guarantees that data from users will not be divulged to other firms. Alexa has also secured an endorsement from TRUSTe. a nonprofit consortium organized by the Electronic Frontier Foundation and CommerceNet, which monitors and certifies cites that adhere to its privacy guidelines. Users seem to appriciate the effort; according to Z Smith, the company's vp of engineering, more than 90% of the beta users have sent their E-mail addresses to ers who click through to a use Alexa's instant messaging "dead" page can receive an ; feature. Initially, the company





Detailed view. The server information box includes the InterNIC summary on the owner's name, address and phone number; the site as ranked by Alexa users; and summaries of the server's speed, number of pages on the site, average freshness of pages and so forth.

had predicted that only 30% would do so.

We had an opportunity to see the Alexa system demonstrate. and then to try it ourselves. The results were impressive: Alex was able to provide relevan links from some pretty obscur sites, and it did a good job of ta: loring its recommendations a we surfed through sites wit: somewhat different types (i content. We did encounter son : bugs, such as the occasional ortopic recommendation li-:. Alexa is also rather slow at delivering pages out of its archive. a process that can take as long as 15 minutes. Part of this is inevitable since the system keeps 90% of its data on tape robcis. Part of it is also due to a rough caching model for what goes in the system's disk cache, where the other 10% of the data is available for higher speed access. Given the system's impressive showing at such an early stage in its development, however, we believe it will get even better as larger numbers of users come online and Alexa continues to refine its technology.

Alexa isn't going to replace traditional search engines, which will remain the best option for users who have a very specific query and a good idea of what they expect to get in return. Nor will it teplace directory.

based services such as Yahoo, which can offer more complete lists of options organized in a distinct taxonomy. Alexa does, however, provide a convincing alternative for more general searches and context-based "where next?" queries, just the kinds of searches that make search engines so frustrating and painful to use. Alexa is, in short, a great idea; we hope the company can combine that idea with effective marketing and a sustainable business model.

Alexa is currently taking applications for its beta program, which will run through the summer. According to Smith, the company hopes to have the system ready for general use in a couple of months.

Matt McKenzie

Alexa Internet
Presidio of San Francisco
P.O. Box 291-11
San Francisco, CA 94129-0141
Phone (415) 561-6300
Fax: (415) 561-6793
www.slexa.com



WIRED

















X As Go Surfers, So Goes Alexa

by Chris Oakes

5 03am 24 Jul 97 POT The Web wants to tell you a little bit about itself. At least that's the mission of a new service from San Francisco start-up Alexa Internet. A free, advertising-supported "intelligent navigation service," Alexa acts as a browsing companion, providing contextual site information via a slim Windows toolbar.

The toolbar software, available in a beta version from Alexa's Web site, receives and presents information independently from a user's browser and offers a range of basic data and site ratings.

"It's a navigation service that gets better as the Web grows and as there are more users," said Alexa Internet president and co-founder Brewster Kahle, who also founded WAIS Inc., an electronic publishing company sold to America Online in 1995. "Other people have found good things and not so good things," he said. "And as the discernment of users gets better, Alexa gets better."

The "meta-data" provided by Alexa is oriented around two questions: Where am I and where should I go next? The first question is answered via such details as ratings of a site's server speed, popularity, and content freshness, and what paths users tend to follow through the site. The second question is answered with a list of links to related sites others have frequented.

In drawing conclusions about sites. Alexa bases its ratings and recommendations on an analysis of patterns within the Web at large - as indicated by the preponderance of links to a particular site, for example. It also builds its opinions by tracking the usage "paths" of other Alexa users.

Jerry Michalski, managing editor of industry newsletter Release 1.0, likes what he sees and says Alexa has no direct parallel, even in agent-oriented sites recommendation services like Fire ...

The general browsing population, Michalski believes, will take to it when it sees that rather than an overview map provided by directories like Yahoo, Alexa is a map with a localized structure. "Wherever you happen to be, it gives you the major roads out," he said. "That's pretty useful."

Alexa's Web analysis is based on a massive "copy of the Web" - an archive of all sites that have existed since early 1996 Already exceeding 5 terabytes in size, the company says the archive is updated with a new Web "snapshot" about every 60 days.

But Alexa's techniques raise some questions about the service's mechanics and even user privacy. For one thing, it's a service that gains intelligence as it is used, and its ratings can't yet draw on a wealth of Alexa-tracked "usage paths." To remedy this. Alexa editors are manually ensuring that "top Web sites" start out with appropriate ratings.

As far as the privacy of information on users' paths through the Web. Kahle says Alexa doesn't know who the users are only what they're doing. "It's not that we don't exchange information [on a user's identity and behavior] - we don't have the information to exchange."

An additional feature similar to Excite's PAL chat service or



Playboy Renews Fight against Telecom Act



TECHNOLOGY Today's Headlines

As Go Surfers, So Goes Alexa

Java Pours from Many Pots

Computers Steer Automated Highway Test

Broken Glass, Sharp Tempers

Mac OS 8 Arrives

The Internet Ate My Husband!

Scans: Most Valuable Player

Tools: Internet Explorer 4.0 Preview 2





AOL's instant messaging, Alexa's chat system can tell a browser who's online, and let them send messages in real-time.

Forrester Research senior analyst Mark Hardie says Alexa's success depends on its positioning versus directories and search engines. Alexa will have to make it clear that it's a navigation hub, educating Web users that "we're not about searching, we're about helping you get around."

The Web, as it continues to explode in content, may require the intelligence of a mass surfing population to help assess its content, as directories can only tally so much. "The richest directory that we know of points to less than 1 percent of all Web pages," Kahle said. That, he believes, leaves a lot of room for his service's approach.

Related Wired Links:

Fish4lt Finds Tires, Pearls 9.Jul.97

Jeeves Finds the Way 9.Jul.97

Agents Are Getting to Know All about You 9.Jul.97



Feedback: Let us know how we're doing.

Tips: Have a story or tip for Wired News? Send it.

Charriert © 1993-97 Wired Ventures, Inc. and affiliated companies.

All rights reserved.

RELIVERED

HOTWIRED



Front page,

News,

Sports,

Money,

Life,

Weather,

Marketplace **EUSA** Tech Report **TODAY**

Inside Tech

09/03/97- Updated 08:08 AM ET

FAQ, Tips and

You are a database and access abounds

Tricks

Sterner of San Francisco.

Web Column

Hot Sites

Tech News

Tech Reviews

Answer Desk

Shareware Shelf

Web Potholes

Web Resources

Tech Front

Resources

Index

Search

Feedback

What's hot

About us

Jobs at USA

Today's typical Net surfer can get all kinds of information that would have taken a private eye to turn up in the past, says Tom

He ought to know. Sterner is an investigator with Decision Strategies International, and he isn't at all surprised at heightened concern about privacy in the age of the Internet. "Generally people freak out about people knowing stuff about them," he says.

Sterner and most investigators use specialized databases, whose 'prohibitive" expense keeps them from the reach of the layman.

But that doesn't mean you can't find a lot of the same material elsewhere.

"If information exists in one place, it exists in more than one place," says database expert Carole A. Lane, who will testify Tuesday at Federal Trade Commission hearings about privacy online.

She calls that rule "Lane's First Law of Information." And it has a corollary: "If information exists anywhere, no matter how carefully guarded, it exists somewhere else, where virtually anyone can gain access to it."

Lane makes her point in a new book titled *Naked in Cyberspace*: How to Find Personal Information Online (Pemberton Press,

\$29.95).

The book has more than 500 pages detailing how information professionals dig up data, and where they turn when they hit a dead end. It holds a few privacy lessons too.

In addition to databases with identifying information and public records from criminal convictions to fishing licenses, Lane cites sources even private investigators might not think to look at, such as alumni newsletters posted online (for news about marriages, births, job changes) and even genealogical bulletin boards.

Jobs at USA

births, job changes) and even genealogical bulletin boards.

TODAY

"Genealogists are very generous about sharing data, and oftentimes it includes who the family members are now, and where they are," she says.

Genealogy may sound innocuous, but it could expose information that compromises privacy: mother's maiden name, for example, is often a key to sensitive financial data.

"I don't remember ever seeing mothers' maiden names in any site I've seen," Sterner says. "I would consider that to be the equivalent of a PIN for information."

Among other personal information Lane cites online:

- Phone directories. Many are free on the Web; some have enhanced features that let you type in a phone number to get name and address or print out a map of the neighborhood. Some even include unlisted phone numbers. While these are not given out by phone companies, they can be gleaned from other sources, such as information from product warranty cards, which is often sold to direct mailers.
- Marketing lists. Companies on the Web advertise all flavors
 of lists that allow advertisers to target specific types of
 consumers, from occupations (Database America touts 250)
 to people who have moved recently, are "upscale
 grandparents" or own pets. "Even pharmacies sell databases,
 which shocked me," Lane says.
- Internet discussion logs. Web sites including Deja News (http://www.dejanews.com) keep searchable records of ongoing conversations on thousands of topics, from TV shows to business to quilting.

A student might post uncensored anecdotes or opinions, "not realizing that somebody years later, perhaps a potential employer, might learn they had done things they were embarrassed by," Lane says. "They might never tell you what they saw, but they might toss your resume before ever calling you."

It's now possible to specify that a posting in an Internet discussion or "newsgroup" not be archived, but not everyone knows this, and many others just don't bother.

 Home pages. Do-it-yourself personal pages proliferate on the Web; tools to create them and places to publish them are now free with many e-mail accounts. And people post all kinds of personal information "not thinking how it could be misused," Lane says.

Examples include everything from resumes with home address, phone and hobbies to pictures of people's kids.

"I wouldn't post my phone number and address at the local grocery store bulletin board," Lane says. "So why would I post it online on the whole world's bulletin board?"



Home pages can be changed or taken down, of course, but even now "snapshots" are being taken of what's on the Web at any given time

Brewster Kahle, known for designing the first Net publishing system, WAIS, is now creating an Internet Archive (http://www.archive.org).

His digital robots crawl the Web making copies of every page so scholars and historians in the future will be able to study the early days of the Net in the same way they now use letters and diaries to study the past.

"The wonder of the Internet is it's changing rapidly," Kahle says. With the archive, "you can dial the time you want" and see what was there.

People seeking specific personal information wouldn't want to download the massive archive files, but Kahle plans this summer to launch a library-type service called Alexa, which will automatically direct browsing software to grab a recent copy of a page if it can't be accessed directly.

His goal is simply to make the Web "more reliable and less flaky," but Kahle obviously sees privacy implications.

So far, though, he says, "The spooky aspects haven't cropped up."

And if anybody doesn't want his page archived, Kahle doesn't argue. "We take it off."

By Leslie Miller, USA TODAY

- Go to High-tech index
- Go to Life Front
- Go to Lifeline
- Go to Money Front
- Go to Moneyline
- Go to News Front
- Go to Nationline
- Go to Web Traveler

Front page,

News,

Sports,

Money,

Life.

Weather,

3985-A

Program protects old Web sites from oblivior

ome years ago, Francis Fukuyama wrote a quirky and fascinating essay called "The End of History," in which he speculated that liberal democracy might be what he called the "end point of mankind's ideological evolution." Fukuyama's notion is more than a little debatable in the political realm, but you can sketch a different end of history

COMPUTERS



when you consider our increasing reliance on digital materials. What if we put everything online, from our retail catalogs to our archives, and the hyperlinks fail?

It's a problem that Web users run into every day. Working on a research project, I recently compiled dozens of articles, many of them only available in online form, for my bibliography. Six weeks after finishing the document, I went back to doublecheck my sources, only to find that three of them were no longer accessible because their links no longer worked. Where did they go, and how can I cite them in a bibliography if they're going to disappear?

I'm sure you've had a similar experience. You find a hyperlink to a page that seems ideal for your purposes. But instead of loading the page, your browser displays an error message telling you that the document cannot be found. And here's a statistic that may give you a start: The average Web page has a lifetime of approximately 44 days. What to do?

One solution is to use Alexa, a program that taps an online archive of Web pages, including those that have changed address or been removed entirely by their owners. Using Alexa is like having a library of back issues of magazines and newspapers, only for Web pages instead of print. It's a kind of snapshot of the Internet at various points in its history. The free



Alexa is a software program that keeps an archive of Web pages. It's a free program that runs as a toolbar on your desktop.

program runs as a toolbar on your desktop and launches when you open your browser.

The database Alexa consults contained, as of late 1997, over eight terabytes of information; considering that the Web is doubling every six months, it should be twice that now. To give you a sense of scale, one terabyte is a million megabytes. A typical public library contains three terabytes of information, while the entire Library of Congress, if reduced to pure text, houses 20. The current Web takes up about five terabytes.

I use the term current Web because what Alexa's parent company does is to make a copy of the Internet every 30 to 60 days. The company, Alexa Internet, is based in San Francisco. and is the brainchild of Brewster Kahle, inventor of the Wide Arca Information Servers system (WAIS) that was one of the earliest Internet search tools. Kahle now provides Alexa to end users and operates the database that feeds it information, a huge project called The Internet Archive

(www.archive.org)

Kahle is not a believer in history having an end, which is why he insists that we find wave to document and preserve the mutable phenomenon of cyberspace publishing. Already, historian David Allison of the Smithsonian Institution has used materials from the archive to create an exhibit of presidential election Web sites, material that might otherwise pass into oblivion the day after the votes are counted. Think of the 1960 election without our access to the presidential debates between Nixon and Kennedy and you begin to see the relevance of saving such information.

And it works for everyday Web work as well. Alexa will search for pages that have been removed from the Web and display them for you. It's not perfect, for the Web is always growing and the archive can never be complete, but if Alexa can find an expired page in its archive, you can still recover and use it.

Of course, issues of privacy come immediately to mind. What

happens if someone creates a Web page with personal inform tion that he or she later wants remove from circulation? The immediate answer is to make possible for authors to exclude their material from the archiv In the long run, numerous que tions involving the nature of online publishing and copyrig! must be resolved. By building this archive now, Kahle's com ny in some ways forces the issue, and it's one that needs fast resolution considering th

impermanence of online data But Alexa does more than d up old Web pages. It also cres "Where to Go Next" suggestions. When your browser go to a particular Web page, Ale: records the visit and the path through related sites, all on a anonymous basis. The softwa analyzes pages and sees which other pages have links to the It also lets users offer their c suggestions about similar pa

Teachers tell me they're st ing more and more students relying on the Internet for th research; in many cases, the challenge becomes to convir the kids that there are mater in brick-and-mortar libraries traditional print materials that should be examined bef jumping to conclusions abou any subject. If this trend con ues, will a missing hyperlink mean that critical informatic can be erased in Orwellian £ ion, manipulated by busines government to control an ou come?

Now there's an "end to his ry" that's positively Kafkaee in its implications, but Alexa first-generation tool that poi to a possible solution. The p gram provides background i mation about each site and quick links to both the onlin-Encyclopedia Britannica an Merriam-Webster's Diction You'll need a 486 or Pentium processor running Windows and 3 MB of free disk space run it. A Mac version is in th works. For more informatio and a free download, go to www.alexa.com.

> Poul Gilster may be r at athermindspri







.

THE CULTURE OF TECHNOLOGY
THE TECHNOLOGY OF CULTURE

THE NET NEVER FORGETS | PAGE 1, 2

SALON

ALSO TODAY



21st Challenge No. 16: Misdirected love notes.

By Charlie Varon and Jim Rosenau Answer the mystery e-mail -- win a prize

TABLE TALK

The Microsoft antitrust trial: Discuss events as they unfold in the Digital Culture area of Table Talk

RECENTLY

Strange Webfellows?

Beyond the question of informed consent lie larger questions: Should all of this electronic flotsam and jetsam be archived in the first place? What are the consequences for us if our digital footprints survive indefinitely? Who should decide whether they do survive?

The answers are hardly comforting, especially for those given to strong displays of emotion or opinion online. "We're now entering an era where tens of millions of people are speaking on the record without any understanding of what it means to speak on the record, and that's certainly unprecedented," says David Sobel, general counsel for the <u>Electronic Privacy Information Center</u> in Washington. "It is suddenly becoming impossible to escape your past."

Your children and grandchildren not yet born will be able to reconstruct a record of your digital life -- not just the good stuff but also the best-forgotten postings to alt.sex.fish or rec.nude. The Web shrine you once erected to an old flame, with its hyperventilating vows of eternal devotion, may give pause to a new lover in your life. The union solidarity page you put up at your first job -- years before you were bucking for senior management -- may come back to haunt your efforts to get a promotion. And who would have predicted that your Senate candidacy would go down in flames when your political opponent uncovered the image-rich homage to



By Andrew Leonard What the AOL purchase of Netscape really means (11/24/98)

Thought-activated computing
By Sam Witt and
Sean Durkin
The brain/computer interface becomes real -- as a boon for the paralyzed (11/23/98)

The copyright boomerang
By Peter Wayner
A new copyright law bans tools that
"circumvent" copy protections -- is cutting and pasting illegal?
(11/20/98)

Court puts new Net censorship rules on hold -- for now By Janelle Brown First ruling in "CDA II" case goes the way of law's opponents (11/20/98)

Let's Get This
Straight
By Scott Rosenberg
Windows on the
wane? Open source
and information
appliances squeeze
PC from both

es /19/98)

DDOWCE THE

porn star Ashlyn Gere you posted in college?

Most people don't have posterity in mind when they fire off notes or post Web pages. Observes Schneier: "When you're in college and posting things online, you're young and immortal and you don't think about the impact your words will have five minutes from now, much less five, 10 or 20 years down the road."

We can already see the outlines of this new world. When you apply for a job in the high-tech sector, there's a fair chance your prospective employer will use a search engine to scout out your online postings, from late-night musings to intemperate rants fired off to a political news group. Would an employer's decision be colored by information that has nothing to do with a candidate's job qualifications, such as your out-of-the-mainstream religious beliefs, sexual orientation, HIV status or personal habits? Absolutely, and without apology. After all, "character" counts, too.

Federal law makes it a crime for government agencies to compare most digital information about U.S. citizens, points out Fred Cate, a law professor at Indiana University and author of "Privacy in the Information Age." But nothing prevents private companies or individuals from doing so. Criminal convictions, driving records, property records and voter registration records might be available with a few keystrokes.

Should employers, neighbors and descendants not yet born be able to poke around in the digital attic for information about you?

Cate believes there are good reasons for us not to be overly concerned. "It's the democratizing of Big Brother, and that's not such a bad thing," he says. "You can find out as much about your boss as he can about you. I'm not really happy that someone down the hall can follow me and make a detabage about me, but that's the way it is in

21ST FEATURES ARCHIVES



21st Log
"Nerds 2.0.1": PBS's
all-too-brief history
of the Internet





S A L O N E M P O R I U M SALE! Salon's versatile, ultra-tough bag. Now on sale at just \$39 for members and \$49 for non-members.

the digital age. If your feelings get bruised, tough. If the information's true and not distorted, then you're stuck with the things you said online years ago. I don't see this as a privacy issue."

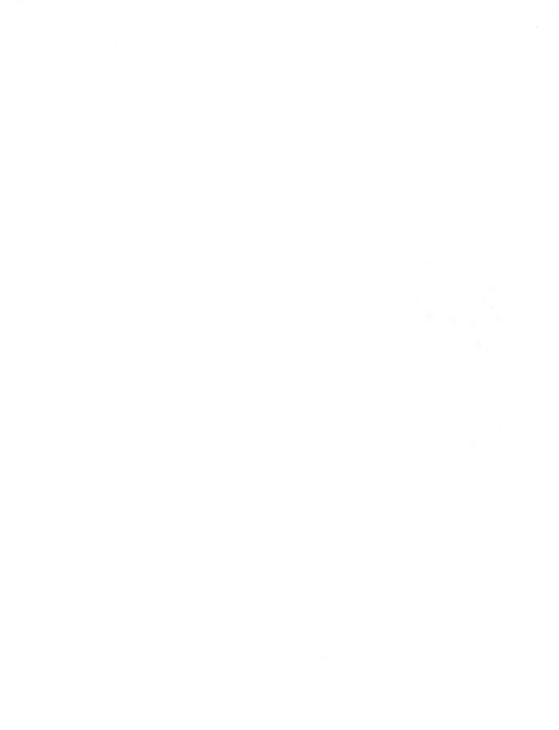
Perhaps not in the narrowest sense. But if every online expression becomes fodder for somebody's professional, personal or political agenda, clearly we lose certain freedoms of expression in the bargain. Do you really want to live next door to Big Brother, even a more democratic one?

Says Sobel: "If you define privacy as the right of individuals to control information about themselves, as we do, then mega-archiving systems clearly raise significant privacy issues. These systems convert every passing thought and contemporaneous musing into a permanent, retrievable record -- without, in many cases, the knowledge or consent of the creator."

Even Brewster Kahle, who founded the nonprofit Internet Archive and its commercial offshoot, <u>Alexa Internet</u>, says, "There are some tricky issues here. A lot of this material is public, but is it really meant to endure?"

What Kahle is doing is nothing less than astonishing. Alexa's 36 employees, working in a century-old building in San Francisco's Presidio, send out "spiders" to crawl the Web and Usenet and store the text, video and audio on a digital jukebox tape drive. It takes about two months to capture all 300 million-plus publicly accessible Web pages. So far they've scooped up 12 terabytes of content, or 12 trillion bytes.

Kahle says he launched his project because "we need to preserve our digital heritage. Unless we start saving it, every passing day we're losing th record of one of the great turning points in human history." His Internet Archive and Alexa



have drawn widespread praise from academics, historians and Net luminaries concerned that the Web's pioneer days may soon become irretrievably lost. For researchers and scholars, it's a field day. For the rest of us, it's a mixed blessing.

Sobel cites a letter he just received from a stockbroker who was distraught about a new database, compiled by the National Association of Security Dealers, profiling the backgrounds of stockbrokers nationwide. "He had a felony conviction 23 years ago, when he was in his 20s. And now that information is about to become searchable online for the first time. He thinks this is outrageous, and I tend to agree with him."

Individuals can't even prevent private indiscretions from winding up as part of the Internet's global voyeurism machine. "I just got a phone call from a distraught mother whose 16-year-old daughter's ex-boyfriend posted nude photos of her on the Web," Sobel says. "The photos were consensual when they were taken. So suddenly it's part of the public domain, and even if the mother persuades him to take them down, he may no longer have control over how long this stuff is out there. This teenage girl may have to live with that for the rest of her life."

Kahle offers another example: "The president's personal home page is probably in our archives now -- the person who'll become president in 20 or 30 years. You know that he or she is the kind of person who already has a Web page up in college."

Are we condemned, then, to a future where journalists will pore over every online college-age musing of a prospective president?

Sobel says, "We need a public debate to redefine the concepts of what should be private and public. Should anyone be able to type your name

into a search engine and come up with public records about your private life? What good are laws that expunge a crime from your record if the old records remain accessible to anyone on the Net? What about information that's misleading, inaccurate or that you had no idea was out there in cyberspace?"

Kahle is well aware of the debate, and he's working with legal experts, historians and privacy advocates to determine the best way to make archived material available. "I used to be very oriented toward privacy, trying to keep track of who knows what about me," he said. "I've become less fanatical about it, because I find that it's more valuable to be found than for me to be obscure. For those who don't want to be found, we should let them be."

But do we have that option anymore? As the Net becomes ubiquitous, its underlying essence of interconnectedness and community comes with a price: the loss of anonymity. We are being drawn forcibly, inexorably, into the global town square.

That is no reason to avoid the Internet (as if we could!). The Net is a gift, connecting us with like-minded individuals around the world, letting us interact in soul-stirring ways. But we need to be aware that our digital footprints are permanent ones: The Net has forgotten how to forget.

This can be both blessing and curse. For many of us, it would be marvelous for our grandchildren to summon up our very first home page. For others, whose online forays may not be the stuff of posterity, a gentle forgetfulness would be far kinder

Once, words were spoken and vanished like vapor in the air; newsprint faded and turned to dust. Today, our pasts are becoming etched like



a tattoo into our digital skins. SALON | Nov. 25, 1998

J.D. Lasica is a new media columnist for the American Journalism Review and the Industry Standard.

MOBILITY MATTERS.

SALON | ARCHIVES | SEARCH | CONTACT US | SERVICES | SALON EMPORIUM | TABLE TALK

21ST | BLUE GLOW | BOOKS | BRILLIANT CAREERS | COMICS | ENTERTAINMENT | FEATURE IVORY TOWER | MEDIA CIRCUS | MONEY | MOTHERS WHO THINK | NEWSREAL | URGE | WANDERLUST

Join Now!

Index

Site Search

Help

进行

Alexa Browser Companion Makes Searches More Certain

by Lisa Moskowitz, PC World

July 18, 1997

If browsers only knew your train of thought when you scanned a site, life would be grand. No more clicking back and forth between search engines and sites, hoping that one of your 13,369 search results will offer up a sliver of useful information. Sigh no more, dear Netizens, Alexa has arrived.

Announced July 17, Alexa Internet is a free Web navigation service that learns from users' collective surfing patterns. Working independently of--but in conjunction with--your browser. Alexa provides recommendations on where to go next based on a site's content and the subsequent paths taken by previous visitors to the site.

For example, when you go to a site about camping, the Alexa toolbar lets the system know where you are so it can retrieve data about that site. In seconds, you'll receive facts about the site, like how many pages it has and to whom it's registered. You'll also be able to consult a list of related sites on subjects such as the best camping grounds in California or where to buy a tent. These suggestions pop up in a Where To Go section and are based on Alexa's user tracking. Subject-sensitive advertising, Alexa's revenue source, is also displayed in this section.

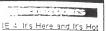
As you surf, your search path is sent anonymously to Alexa and incorporated into their database. The next user who comes to that site can then benefit from your search decisions. Privacy is not compromised because a rigid system discards the user's identity before any path details are forwarded, according to Alexa co-founder Bruce Gilliat.

If the browser can't locate a site for whatever reason. Alexa will pull up the most recent rendition of it from its archive. Alexa also has an instant chat feature for real-time communication with other Alexa users.

ta is the brainchild of Gilliat and Brewster Kahle, the meta-data king of Wide Area Information Server (AIS) fame. Kahle invented the information retrieval system, which fetches documents by keywords and ranks them based on the number of times the keywords appears. Sound familiar? It should. Kahle sold WAIS to America Online in 1995. He and Gilliat, who worked at WAIS, then started on their new project: archiving the Web. "We thought we should preserve our digital heritage," Gilliat said. "The question then was, what can we do with this information to provide a service for Net users?"

The answer was Alexa. The start-up was founded in 1996 and accesses an archive containing more than 5TB about 5000 grgabytes) of Web data. Alexa requires less than 10 percent of a user's bandwidth to operate. Gilliat said

The beta version of Alexa is currently available for download on the Alexa home page for the first 10,000 registered users. The program works with Netscape and Microsoft browsers and requires Windows 95 or NT.



Netbaster Beta 3 Ready for Download

Whois On (Air First? Netscape Previews Netcaster

and the state of the state of

Netcaster Beta 3 Ready for Download

MCI and Prodicy Dish Up

MCI and Prodigy Dish Up New Net Access

String of Crashes Leads to Week From Hell for the

Nercaster Beta 3 Ready for Download

More Daily News

Aleka Internet

America Online



<u>Provincing</u> 1997 PC World Communications. All Rights Reserved. Use of this service is subject to the PC World Inline <u>Termini Service</u> Agreement.









